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UNITED STATES
DEPARTMENT OF AGRICULTURE
CIRCULAR No. 424

Washington, D. C.

April 1937

DISTRIBUTION OF THE VARIETIES
AND CLASSES OF WHEAT IN THE
UNITED STATES IN 1934

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HISTORY OF VARIETAL DISTRIBUTION

In the older wheat-growing regions of the United States some of the varieties now grown have been in cultivation for more than a hundred years. In the newer regions and in recent years, varieties have changed rapidly because of the development and distribution of improved varieties by State and Federal agricultural experiment stations and by private breeders. Varietal surveys furnish a record of the shifting of varieties. In addition to furnishing a history of varietal distribution, the survey forms a basis for wheat improvement. For these reasons a wheat varietal survey has been made, at 5-year intervals, by the United States Department of Agriculture.

Previous surveys were made in 1919, 1924, and 1929, and the results have been published.²

This circular presents the estimated acreages computed from the fourth survey, for the crop year 1934. It is based largely on the harvested wheat-acreage figures by counties as reported by the Bureau of the Census, United States Department of Commerce, from the special agricultural census of 1935.

¹ The writers wish to express their appreciation to S. A. Jones, senior agricultural statistician, Division of Crop and Livestock Estimates, Bureau of Agricultural Economics, for his cooperation in the printing and distribution of the questionnaires; and to C. G. Colcord, scientific aide, Antoinette J. Novotny, and Marion B. Waldrop, Division of Cereal Crops and Diseases, for making the mathematical calculations and assembling the data. The maps were made in the graphic section of the Bureau of Agricultural Economics.

² CLARK, J. A., MARTIN, J. H., and BALL, C. R. CLASSIFICATION OF AMERICAN WHEAT VARIETIES. U. S. Dept. Agr. Bull. 1074, 238 pp., illus. 1922.

MARTIN, J. H., QUISENBERRY, K. S., HOOKER, J. R., LEIGHTY, C. E., and DU BOIS, C. N. DISTRIBUTION OF THE CLASSES AND VARIETIES OF WHEAT IN THE UNITED STATES. U. S. Dept. Agr. Bull. 1498, 68 pp. 1929.

— and QUISENBERRY, K. S. DISTRIBUTION OF THE VARIETIES AND CLASSES OF WHEAT IN THE UNITED STATES IN 1929. U. S. Dept. Agr. Circ. 283, 75 pp. 1933.

VARIETAL-SURVEY METHODS

The methods used were much the same as those used in the previous surveys. Questionnaires were sent to crop correspondents of the Division of Crop and Livestock Estimates, Bureau of Agricultural Economics, United States Department of Agriculture. Additional schedules were supplied to State agricultural experiment stations for distribution. The correspondents were requested to name the varieties of wheat grown in their locality and to estimate the percentage of the total acreage occupied by each. In 1934 questionnaires were sent to reporters in all States that reported wheat acreages in 1929. Approximately 70,000 questionnaires were sent out.

About 20,000 schedules were returned. These were sorted and all containing usable information were edited and the data so compiled as to eliminate synonymous names. Insofar as possible, the identity of misnamed varieties was determined, partly by the description of varieties as supplied by the correspondents and partly by local names, the synonymy of which had been previously determined. In many cases, seed or head samples and additional information were requested in an attempt to more accurately identify new names. Nearly 13,000 of the reports returned were usable, or 3,000 more than in 1929. In editing the usable questionnaires of this survey it was felt that the reporters were becoming more "variety conscious" and that the information given was more accurate than in the previous surveys. This probably is due, in part at least, to more emphasis being placed on varieties by growers, extension workers, farm papers, and the grain trade throughout the country.

Acreage percentages for each variety as reported by the correspondents from each county were averaged. The county acreage as reported by the census was then broken down according to these average percentages. The result gave the estimated acreage for each variety by counties. These county figures were used as the basis for determining the total acreage of varieties for each State and for the United States, and the acreages of all varieties in each commercial class for each crop-reporting district and State and for the United States.

Reports were not received from all counties in which wheat was grown. In order to make the data more complete, estimates were made by the writers for all counties containing more than 100 acres of wheat from which no reports were received. These estimates were based on information for the same counties from previous surveys, from reports from adjacent counties, and the writers' personal knowledge. Some correspondents failed to report varieties totaling 100 percent of the acreage of their community or they simply listed a certain percentage of "other varieties." Some reports contained varieties under local names that could not be identified. Owing to these discrepancies the acreage of wheat not accounted for by varieties is listed in the tables as "others and not reported." The reported acreages of the varieties of durum and club wheats are especially incomplete, because these varieties were listed by many of the correspondents simply as "durum" or "club." Therefore, the acreage of "varieties not reported" is unusually large for these wheats.

In previous surveys the harvested acreage figure has been used for the basis of all determinations. This figure was again used for all States except the following: Colorado, Iowa, Kansas, Minnesota, Montana, Nebraska, New Mexico, North Dakota, South Dakota,

Texas, Wisconsin, and Wyoming. In the case of these 12 States, which suffered severely from drought, the seeded acreage as reported by the Bureau of Agricultural Economics for the 1934 crop was used. In order to obtain a figure for each county the 1934 seeded acreage for the State was divided up by counties based on the 5-year, 1928-32 average seeded acreage. Thus the acreage by counties in the State for 1934 is in the same proportion as it was for the 5-year period. The use of seeded acreage is not in line with previous surveys, but it is felt that for the historical records the error is less than it would have been had the greatly reduced harvested acreages been used for these States.

A map has been made showing the distribution of the acreages of all wheats as used in this circular, also maps for the different market classes and of the important varieties, the county acreages being used as a basis. The scale used for the map of total wheat acreage is one dot for each 5,000 acres per county. On the class maps one dot indicates 2,000 acres per county, and on varietal maps one dot represents 1,000 acres or less per county.

In this survey the varietal names used are the ones recognized in Technical Bulletin 459³ and in the annual reports on varietal registration issued through a cooperative agreement between the Bureau of Plant Industry and the American Society of Agronomy.

In 1919, 1924, 1929, and 1934, respectively, 139, 152, 190, and 213 distinct varieties were reported. In 1934, 34 new varieties were reported for the first time and 7 varieties which had been reported previously but not in 1929 were again reported. Seventeen varieties were reported in 1929 but not in 1934. Additional new named varieties are known to have been grown in experiments and on small acreages but were not reported in the survey.

WHEAT ACREAGE OF THE UNITED STATES

The total acreage (harvested acreage in all but 12 drought States) in the United States in 1934 in round numbers was 61 million acres. This is slightly more than the average for the 10 years ended in 1933, which is slightly in excess of 57 million acres. The acreage in 1924 was about 51 million acres and in 1929, 62 million acres. Thus the 1934 survey is based on an acreage about the same as that in 1929 but slightly above the average. The harvested acreage as shown by the census was about 42 million acres in 1934. Had this figure been used the deviation from the average would have been much greater than in the case of the figure here used. The distribution of the total wheat acreage for the United States in 1934 is shown in figure 1.

In general, there was an increase in acreage in Arkansas, Georgia, Ohio, North Carolina, South Carolina, and Tennessee. While the increase in acreage in some of these States is not large the percentage of increase is rather high. Some Eastern States showed decreases such as Delaware, Maryland, Pennsylvania, and Virginia.

In the western half of the United States increases in acreage were shown in Arizona, Colorado, Kansas, Minnesota, and Texas. In North Dakota, South Dakota, Montana, Wyoming, Nebraska, Oklahoma, and Oregon the averages in 1934 were lower than in 1929.

³ CLARK, J. A., and BAYLES, B. B. CLASSIFICATION OF WHEAT VARIETIES GROWN IN THE UNITED STATES. U. S. Dept. Agr. Tech. Bull. 459, 164 pp., illus. 1935.

It must be remembered that actually there was a decrease in harvested acreage in the Great Plains region due to drought, but for reasons explained the seeded acreages were used in these States.

ESTIMATED ACREAGE OF VARIETIES

The estimated acreage and the percentage of the total wheat acreage occupied by each variety in 1919, 1924, 1929, and 1934 are shown by States in table 1. If a variety was not reported in either

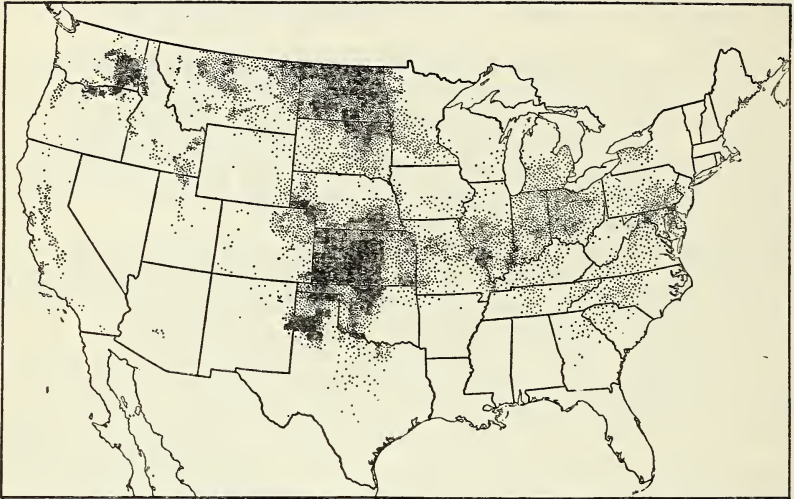


FIGURE 1.—Distribution of the total wheat acreage in the United States in 1934. Each dot represents 5,000 acres. Estimated area, 60,953,135 acres.

1929 or 1934 it is not shown in table 1, even though it may have been reported in previous surveys. The percentage in 1934 of each of the three leading varieties in each State, arranged by geographical divisions, is shown in table 2. The estimated acreage and the percentage of the total wheat acreage occupied by each variety in the United States in 1919, 1924, 1929, and 1934 are shown in table 3. Here again only those varieties reported in 1929 or 1934 are shown. The varieties grown on a million acres or more in each of the four surveys are listed in table 4 in the order of their importance.

TABLE 1.—*Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934*

[Figures in parentheses opposite the name of each State, under "Acreage", show the number of reports used in computing the data for each survey. The asterisk in parentheses (*) indicates a variety reported as grown, but an estimate of acreage either was not given or if given was less than 0.1 percent of the total acreage of the State]

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Alabama:	(223)	(32)	(10)	(12)				
Flint.....	200			639	0.6			7.1
Fulcaster.....	5,700	565	104		16.8	9.3	6.8	
Purplestraw.....	18,500	2,613	763	8,080	54.4	43.0	50.1	89.9
Others and not reported.....	5,817	1,810	657	268	17.0	29.9	43.1	3.0
Total.....			1,524	8,987	88.8	82.2	100.0	100.0
Arizona:	(41)	(14)	(30)	(10)				
Alaska.....	200	84	62		.6	.3	.4	
Baart.....	20,100	5,985	12,333	34,601	55.3	18.6	79.8	85.4
Club (varieties not reported).....	6,360	8,682	869	854	17.3	27.0	5.6	2.1
Defiance.....	400	476		210	1.1	1.5		.5
Dicklow.....			4					
Durum (varieties not reported).....	200	28	41	26	.6	.1	.3	.1
Marquis.....	300	1,000	77	611	.8	3.1	.5	1.5
Pacific Bluestem.....	600	68	178	156	1.7	.2	1.2	.4
Pusa No. 4.....				4				(*)
Sonora.....	5,700	13,747	1,256	3,637	15.7	42.7	8.1	9.0
Turkey.....	600	95	249	309	1.7	.3	1.6	.8
Others and not reported.....	942	1,997	379	82	2.3	6.2	2.5	.2
Total.....			15,448	40,490	97.1	100.0	100.0	100.0
Arkansas:	(274)	(41)	(29)	(112)				
Currell.....	2,800	48	1,566	5,020	1.1	.1	9.5	8.4
Fulcaster.....	30,460	9,094	4,045	8,149	11.9	27.8	24.5	13.6
Fultz.....	37,100	1,638	2,898	5,717	14.5	5.0	17.5	9.5
Fultz-Mediterranean.....				468				.8
Gold Drop.....	600		134		.2		.8	
Imperial Amber.....		400	217			1.2	1.3	
Kanred.....				435				.7
Mediterranean.....	24,100	7,057	5,071	6,302	9.4	21.6	30.6	10.5
Poole.....	1,200		792	5	.5			1.3
Purplestraw.....	21,560	2,091	753	3,161	8.4	6.4	4.6	5.3
Redhart.....			41					(*)
Red May.....	63,700	1,963	865	16,102	24.9	6.0	5.2	26.8
Turkey.....	14,300	1,693		4,432	5.6	5.2		7.4
Walker.....	4,100			462	1.6			.7
Others and not reported.....	42,908	7,785	986	9,024	16.7	23.9	6.0	15.0
Total.....			16,535	60,105	94.8	97.2	100.0	100.0
California:	(205)	(84)	(132)	(192)				
Alaska.....		287	1,565				.3	
Baart.....	116,400	115,094	156,924	169,554	10.7	32.1	24.8	27.6
Big Club.....	500	727	603	33,829	(*)	.2	.1	5.5
Bunyip.....	(*)	29,508	106,877	70,008	(*)	8.2	16.9	11.4
Club (varieties not reported).....	111,900	60,030	50,630		10.3	16.7	8.0	
Defiance.....	26,500	1,498	9,586	1,578	2.4	.4	1.5	.2
Dicklow.....			730				.1	
Durum (varieties not reported).....	600	4		231	.1	(*)		(*)
Escondido.....			2,125	15,439			.3	2.5
Federation.....		43	23,393	57,163		(*)	3.7	9.3
Galgalos.....	18,000	2,823	4,512	6,942	1.6	.8	.7	1.1
Goldcoin.....				887				.1
Hard Federation.....		1,358	14,805	163		.4	2.3	(*)
Jenkin.....			683					.1
Kanred.....			356	1,752			.1	.3
Little Club.....	27,160	6,601	2,904	22,327	2.5	1.8	.5	3.6
Lynn.....	9,300			2,312	.9			.4
Marquis.....	4,700	196	4,493		.4	.1	.7	
Onas.....			16,696	28,398			2.6	4.6
Pacific Bluestem.....	441,400	49,571	91,101	43,635	40.4	13.8	14.4	7.1
Pilcrow.....				3,131				.5
Poso.....			1,732					.3
Propo.....	19,400	8,983	18,483	2,182	1.8	2.5	2.9	.4
Pusa No. 4.....			589				.1	
Quality.....		(*)	1,115	2,978		(*)	.2	.5
Ramona.....			457					.1
Sonora.....	190,600	42,808	67,292	33,614	17.5	11.9	10.7	5.5

TABLE 1.—*Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued*

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
California—Continued.								
Surprise.....	29,300	4,511	9,092	-----	2.7	1.3	1.5	-----
Turkey.....	7,200	3,032	2,744	1,612	.7	.8	.4	0.3
White Federation.....	1,311	1,311	37,541	105,070	-----	.4	5.9	17.1
White Winter.....	2,060	368	154	165	.2	.1	(*)	(*)
Others and not reported.....	79,614	26,319	8,469	8,994	7.1	7.4	1.3	1.5
Total.....	-----	-----	632,779	614,836	99.3	99.0	100.0	100.0
Colorado:								
Alton.....	(253)	(129)	(320)	(300)	-----	-----	1.0	-----
Baart.....	100	-----	1,664	2,678	(*)	-----	.1	.2
Blackhull.....	-----	3,357	28,093	89,973	-----	.3	1.8	5.8
Ceres.....	-----	-----	-----	46,157	-----	-----	-----	3.0
Club (varieties not reported).....	2,900	-----	4,330	38	.2	-----	.3	(*)
Converse.....	-----	-----	2,224	2,242	-----	-----	.1	.1
Defiance.....	124,000	22,786	26,906	28,650	9.3	1.7	1.8	1.8
Dicklow.....	-----	-----	1,218	3,021	-----	-----	.1	.2
Dixon.....	-----	-----	-----	3,907	-----	-----	-----	.3
Durum (varieties not reported).....	148,000	70,964	30,651	11,818	11.1	5.4	2.0	.8
Federation.....	-----	-----	211	2,571	-----	-----	(*)	.2
Fulcaster.....	-----	-----	5,204	-----	-----	-----	.3	-----
Hard Federation.....	-----	-----	-----	35	-----	-----	-----	(*)
Harvest Queen.....	-----	-----	1,015	-----	-----	-----	.1	-----
Haynes Bluestem.....	3,100	-----	25	-----	.2	-----	(*)	-----
Jones Blue.....	4,600	2,482	1,044	1,095	.3	.2	.1	.1
Kanred.....	-----	306,914	269,808	223,628	-----	23.5	17.5	14.4
Kitchener.....	-----	715	3,378	3,665	-----	.1	.2	.2
Komar.....	-----	-----	1,730	-----	-----	-----	-----	.1
Kota.....	-----	-----	2,830	517	-----	-----	.2	(*)
Kubanka.....	100	-----	125	-----	(*)	-----	(*)	-----
Marquis.....	125,200	181,504	262,112	197,642	9.4	13.9	17.0	12.7
Nebraska No. 60.....	-----	-----	16,520	16,277	-----	-----	1.1	1.0
Palisade.....	1,600	-----	1,568	-----	.1	-----	.1	-----
Pentad.....	-----	-----	1,016	-----	-----	-----	.1	-----
Preston.....	(*)	-----	18,593	-----	(*)	-----	1.2	-----
Quality.....	-----	(*)	798	-----	-----	(*)	.1	-----
Red Bobs.....	-----	248	1,693	497	-----	(*)	.1	(*)
Red Fife.....	-----	1,227	53	-----	-----	.1	(*)	-----
Red Wave.....	-----	641	1,083	114	-----	(*)	.1	(*)
Ruby.....	-----	-----	91	-----	-----	-----	(*)	-----
Sea Island.....	-----	-----	6,802	427	-----	-----	.4	(*)
Sonora.....	3,300	2,206	44	171	.2	.2	(*)	(*)
Surprise.....	1,500	-----	2,491	1,221	.1	-----	.2	-----
Touse.....	-----	73	43	-----	-----	(*)	-----	(*)
Turkey.....	884,300	666,661	791,525	831,704	66.5	51.0	51.4	53.5
Others and not reported.....	15,613	42,701	39,785	85,179	1.4	3.3	2.6	5.5
Total.....	-----	-----	1,538,914	1,555,000	98.8	99.7	100.0	100.0
Connecticut:								
Currell.....	(18)	(5)	(8)	(5)	-----	-----	17.6	15.4
Dawson.....	-----	51	27	-----	-----	-----	30.0	32.6
Forward.....	-----	87	57	90	-----	-----	-----	46.4
Goldcoin.....	100	37	60	12	3.6	12.8	34.3	6.2
Leap.....	-----	-----	-----	69	-----	-----	-----	35.6
Others and not reported.....	876	111	31	23	31.6	38.2	17.7	11.8
Total.....	-----	-----	175	194	35.2	98.6	100.0	100.0
Delaware:								
China.....	(27)	(10)	(10)	(20)	-----	.4	.6	.6
Forward.....	-----	371	622	505	-----	-----	2.9	1.2
Fulcaster.....	-----	-----	3,036	980	-----	-----	-----	-----
Fultz.....	18,800	61,611	20,247	19,785	15.0	63.7	19.1	24.7
Goldcoin.....	14,100	1,684	4,646	505	11.2	1.7	4.4	.6
Leap.....	-----	-----	-----	73	-----	-----	-----	.1
Mammoth Red.....	12,700	19,440	36,635	14,399	10.1	20.1	34.7	17.9
Nittany.....	-----	-----	4,646	1,817	-----	-----	4.4	2.3
Poole.....	1,300	741	28,587	32,961	-----	.8	27.0	41.1
Red Wave.....	800	1,111	622	-----	1.0	1.1	.6	-----
Others and not reported.....	66,340	6,666	6,694	8,236	52.8	6.9	6.3	10.3
Total.....	125,740	96,703	105,735	80,241	90.7	94.7	100.0	100.0

TABLE 1.—Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Georgia:	(864)	(165)	(146)	(342)				
Cherokee.....				2,763				1.6
Flint.....	(*)	1,493	235	9,882	(*)	2.2	0.5	5.9
Fulcaster.....	17,700	4,868	1,524	6,266	12.4	7.1	3.2	3.7
Fultz.....	2,100	648	525	3,998	1.5	.9	1.1	2.4
Gasta.....				952				.6
Leap.....	2,300	1,164	1,228	72	1.6	1.7	2.6	.1
Mediterranean.....	600	790	286		.4	1.1	.6	
Purplestraw.....	77,400	47,784	40,043	129,162	54.2	69.2	83.4	77.0
Redhart.....				6,599				3.9
Rice.....	100	5,347	2,372	59	.1	7.7	4.9	(*)
Others and not reported.....	6,789	5,983	1,807	8,056	4.6	8.8	3.7	4.8
Total.....			48,020	167,809	74.8	98.7	100.0	100.0
Idaho:	(251)	(112)	(272)	(236)				
Alaska.....	(*)		30		(*)		(*)	
Albit.....			2,378	74,010			.2	8.4
Allen.....	1,800	1,851	1,280		.2	.2	.1	
Baart.....	15,200	90,409	111,315	62,605	1.3	11.1	8.6	7.1
Big Club.....	12,300	1,730	813	607	1.1	.2	.1	.1
Blackhull.....			207	453			(*)	.1
Bunyip.....			178	271			(*)	(*)
Club (varieties not reported).....	44,700	20,227	17,041	5,278	3.9	2.5	1.3	.6
Defiance.....	15,400	2,632	420		1.3	.3	(*)	
Dicklow.....	159,800	85,888	189,745	130,144	14.0	10.6	14.7	14.8
Durum (varieties not reported).....	1,900	249		82	.2	(*)	(*)	(*)
Federation.....		16,757	211,420	160,193		2.1	16.3	18.2
Garnet.....				346				(*)
Goldcoin.....	92,800	67,719	112,870	32,055	8.1	8.4	8.7	3.6
Gypsum.....	9,600	1,520		1,871	.8	.2		.2
Hard Federation.....		1,103	2,242	1,193		.1	.2	.1
Hybrid 123.....		301	295			(*)	(*)	
Hybrid 128.....	1,800	2,875	25,535	338	.2	.4	2.0	(*)
Hybrid 143.....		1,003	6,866	2,026		.1	.5	.2
Jenkin.....	21,300	34,915	35,968	14,365	1.9	4.3	2.8	1.6
Jones Life.....	25,200	10,414	15,473	5,114	2.2	1.3	1.2	.6
Kanred.....		7,169	22,029	8,395		.9	1.7	1.0
Karmont.....			8,573				.7	
Little Club.....	24,600	6,748	1,931	459	2.2	.8	.1	.1
Lofthouse.....	3,600		3,141	2,128	.3		.2	.2
Mackey.....				3,907				.5
Marquis.....	185,400	119,842	94,511	44,996	16.2	14.8	7.3	5.1
Martin.....	7,400	811	919	2,727	.6	.1	.1	.3
Mosida.....			11,887	10,869			.9	1.2
New Zealand.....		908	49			.1		(*)
Odesa.....	14,500	723	1,217	2,454	1.3	.1	.1	.3
Oro.....				420				.1
Pacific Bluestem.....	141,600	55,376	42,233	13,453	12.4	6.8	3.3	1.5
Pilcrow.....			575					.1
Powerclub.....		4,516	649	2,068		.6	.1	.2
Quality.....		407	14,744	1,854		.1	1.1	.2
Red Bobs.....		(*)	1,129	5,334		(*)	.1	.6
Red Fife.....	2,300			120	.2			(*)
Red Russian.....	38,600	10,094	29,230	16,685	3.4	1.2	2.3	1.9
Regal.....			513				(*)	
Ridit.....			35,951	38,156			2.8	4.3
Sherman.....			1,266	1,712			.1	.4
Sonora.....	22,800	9,350	2,666	3,064	2.0	1.2	.2	.4
Surprise.....	5,300	10,878		491	.5	1.3		.1
Triplet.....		18,413	11,775	3,635		2.3	.9	.4
Turkey.....	178,000	215,835	257,669	205,261	15.6	26.7	19.9	23.3
White Odesa.....			446				(*)	
Wilhelmina.....				11,563				1.3
Others and not reported.....	103,495	6,070	18,000	9,631	9.1	.9	1.4	1.1
Total.....			1,294,555	880,417	99.0	99.7	100.0	100.0
Illinois:	(837)	(482)	(424)	(520)				
Blackhull.....		61,165	5,432	4,946				.2
Climax.....	7,400	1,735	961		.2	.1	(*)	
Currell.....	22,400	1,277	3,633	1,701	.5	.1	.2	.1
Democrat.....	1,700		1,280		(*)		.1	
Diehl-Mediterranean.....	6,200		1,822	9,107	.2		.1	.4
Durum (varieties not reported).....	10,560	917	671	6	.3	(*)	(*)	(*)
Fulcaster.....	105,200	90,490	129,838	71,512	2.6	4.0	6.2	3.4
Fulhio.....			65,333	208,071			3.1	10.0

TABLE 1.—*Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued*

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Illinois—Continued.								
Fultz.....	991,600	518,123	414,764	538,614	24.2	23.0	19.8	25.9
Fultz-Mediterranean.....	50,000	4,770	7,850	9,251	1.2	.2	.4	.4
Harvest Queen.....	94,900	57,037	7,350	3,183	2.3	2.5	.4	.2
Haynes Bluestem.....	32,600	729	400	.....	.8	(*)	(*)	.....
Illini Chief.....	(*)	2,033	1,302	.....	.....	.1	.1	(*)
Illinois No. 1.....	.....	.....	.....	1,116	(*)	.....	.....	.1
Illinois No. 2.....	.....	.....	.....	968	.....	.....	.....	.1
Ired.....	.....	9,205	24,190	7,530	.....	.4	1.1	.4
Iobred.....	.....	.....	7,545	6,857	.....	.....	.4	.3
Ioturk.....	.....	.....	.....	98	.....	.....	.....	(*)
Java.....	2,600	.....	13,914	1,426	.1	.....	.7	.1
Jones Fife.....	126,400	32,647	15,852	9,298	3.1	1.5	.8	.5
Kanred.....	.....	105,954	45,982	25,368	.....	4.7	2.2	1.2
Kota.....	.....	.....	.....	220	.....	.....	(*)	.....
Marquis.....	464,800	25,924	34,113	8,972	11.3	1.1	1.6	.4
Mediterranean.....	261,500	55,917	47,664	62,112	6.4	2.5	2.3	3.0
Michikof.....	.....	.....	51,214	30,081	.....	.....	2.4	1.4
Minturki.....	.....	.....	5,344	5,664	.....	.....	.3	.3
Nabob.....	.....	.....	.....	714	.....	.....	.....	(*)
Nigger.....	29,700	15,909	10,893	5,960	.7	.7	.5	.3
Poole.....	112,900	55,692	50,341	35,547	2.8	2.5	2.4	1.7
Preston.....	23,800	2,381	6,693	2,141	.6	.1	.3	.1
Progress.....	.....	.....	1,501	2,602	.....	.....	.1	.1
Prosperity.....	.....	.....	.....	595	.....	.....	.....	(*)
Purkof.....	.....	.....	36,335	108,117	.....	.....	1.7	5.2
Red Clawson.....	2,500	.....	.....	40	.1	.....	.....	(*)
Red May.....	138,200	54,872	123,002	82,648	3.4	2.4	5.9	4.0
Red Rock.....	2,500	113	1,104	.....	.1	(*)	(*)	.....
Red Wave.....	142,400	101,269	65,237	86,106	3.5	4.6	3.1	4.1
Rice.....	.....	.....	.....	590	.....	.....	.....	(*)
Rudy.....	15,300	2,652	2,041	1,485	.4	.1	.1	.1
Russian Red.....	23,900	9,229	7,248	11,392	.6	.4	.3	.6
Shepherd.....	.....	.....	3,399	538	.....	.....	.2	(*)
Sturgeon.....	.....	.....	.....	7	.....	.....	.....	(*)
Trumbull.....	.....	361	9,634	13,504	.....	(*)	.5	.7
Turkey.....	1,106,200	928,740	749,930	573,626	26.9	41.3	35.8	27.6
Ukrainka.....	.....	.....	.....	991	.....	.....	.....	.1
Valley.....	4,800	.....	161	83	.1	.....	(*)	(*)
Walker.....	3,900	.....	.....	2,039	.1	.....	.....	.1
Wisconsin Pedigree No. 2.....	.....	.....	.....	622	.....	.....	.....	(*)
Others and not reported.....	279,650	102,921	139,206	144,470	6.5	4.6	6.6	6.9
Total.....	.....	.....	2,093,399	2,080,264	99.0	99.6	100.0	100.0
Indiana:								
Blackhull.....	(902)	(373)	(509)	(575)	.....	(*)	(*)	.....
Climax.....	1,300	2,233	3,177	884	(*)	.1	.2	.1
Currell.....	28,200	9,389	10,019	6,868	1.0	.6	.7	.4
Diehl-Mediterranean.....	1,400	.....	2,454	3,094	.1	.....	.2	.2
Fulcaster.....	35,000	74,070	28,533	14,678	1.3	4.6	1.9	.8
Fulhio.....	.....	.....	576	1,918	.....	.....	(*)	.1
Fultz.....	410,700	270,941	263,751	411,622	14.7	16.9	17.2	22.3
Fultz-Mediterranean.....	29,000	3,951	5,313	5,226	1.0	.2	.3	.1
Gipsy.....	17,500	15,650	351	3,292	.6	1.0	(*)	.2
Gladden.....	.....	1,920	360	.....	.....	.1	(*)	.....
Goens.....	60,800	52,642	9,477	28,845	2.2	3.3	.6	1.6
Goldcoin.....	2,200	1,109	2,362	.....	.1	.1	.2	.....
Harvest Queen.....	4,700	7,573	10,983	344	.2	.5	.7	(*)
Jones Fife.....	25,200	4,494	12,376	5,328	.9	.3	.8	.3
Kanred.....	.....	8,273	4,612	2,320	.....	.5	.3	.1
Marquis.....	11,000	2,178	1,207	713	.4	.1	.1	(*)
Mediterranean.....	63,900	47,893	11,336	5,540	2.3	3.0	.7	.3
Michikof.....	.....	52,550	86,985	61,842	.....	3.3	5.7	3.4
Nigger.....	100,600	46,805	50,515	42,311	3.6	2.9	3.3	2.3
Nittany.....	.....	.....	150	.....	.....	.....	(*)	.....
Poole.....	707,600	307,359	196,716	212,397	25.3	19.1	12.8	11.5
Prosperity.....	1,800	.....	2,023	.....	.1	.....	.1	.....
Purdue No. 1.....	.....	.....	.....	275	.....	.....	.....	(*)
Purkof.....	.....	.....	162,938	188,114	.....	.....	10.6	10.2
Red Clawson.....	7,500	3,226	838	1,954	.3	.2	.1	.1
Red May.....	147,200	134,535	235,051	320,542	5.3	8.4	15.4	17.4
Red Rock.....	15,200	19,092	9,759	5,193	.5	.1	.7	.3
Red Wave.....	369,700	98,064	49,185	65,588	13.2	6.1	3.2	3.6
Rudy.....	238,100	198,581	142,759	187,044	8.5	12.4	9.3	10.1
Russian.....	.....	2,557	9,564	.....	.....	.2	.6	.....
Russian Red.....	58,500	12,679	7,154	9,442	2.1	.8	.4	.5

TABLE 1.—Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Indiana—Continued.								
Trumbull.....		7, 573	44, 318	91, 004		0.5	2.9	4.9
Turkey.....	128, 100	129, 194	49, 127	35, 404	4.6	8.0	3.2	1.9
Wheedling.....	10, 900	3, 372	851	4, 058	.4	.2	.1	.2
Wisconsin Pedigree No. 2.....			259				(*)	
Others and not reported.....	308, 257	78, 498	117, 896	131, 826	10.7	5.0	7.7	7.1
Total.....			1, 533, 031	1, 844, 966	99.4	98.5	100.0	100.0
Iowa:								
	(737)	(90)	(329)	(317)				
Ceres.....			177	291			.1	.1
Durum (varieties not reported).....	15, 400	4, 291	1, 420	1, 558	1.1	1.0	.3	.5
Fultz-Mediterranean.....	900	409	950	105	.1	.1	.2	(*)
Harvest Queen.....	400	561	547	874	(*)	.1	.1	.3
Haynes Bluestem.....	96, 000	3, 711	4, 781	392	6.7	.8	1.2	.1
Hope.....				690				.2
Iobred.....		557	75, 670	88, 851		.1	18.0	25.5
Ioturk.....			4, 149	9, 088			1.0	2.6
Iowa No. 404.....	13, 100	4, 756	1, 996		.9	1.1	.5	
Iowin.....			1, 008	8, 536			.2	2.4
Java.....	4, 800	5, 504	2, 095	996	.3	1.2	.5	.3
Jones Fife.....	200		2, 643		(*)		.6	
Kanred.....		74, 139	38, 843	28, 965		16.6	9.2	8.3
Komar.....				855				.2
Kota.....			585				.1	
Kubanka.....			78				(*)	
Marquillo.....				159				(*)
Marquis.....	402, 800	28, 371	21, 054	17, 574	28.0	6.4	5.0	5.0
Mediterranean.....	2, 200		3, 068		.2		.7	
Minturki.....		422	616			.1	.2	
Pentad.....				790				.2
Poole.....			182				.1	
Preston.....	65, 100	5, 780	3, 916	1, 605	4.5	1.3	.9	.5
Quality.....			772	1, 573			.2	.5
Red Fife.....	14, 000		57		1.0		(*)	
Red May.....	14, 000	1, 535	2, 384	309	1.0	.3	.6	.1
Red Rock.....			45				(*)	
Ruby.....			55	419			(*)	.1
Sea Island.....	500	5, 939	41		(*)	1.3	(*)	
Turkey.....	749, 100	289, 141	245, 997	183, 188	52.1	64.8	58.4	52.5
Others and not reported.....	52, 896	17, 120	8, 060	2, 182	3.7	4.0	1.9	.6
Total.....			421, 189	349, 000	99.6	99.2	100.0	100.0
Kansas:								
	(1360)	(442)	(744)	(766)				
Alton.....	8, 100	532	202		.1	(*)	(*)	
Blackhull.....	(*)	1, 024, 214	3, 953, 799	4, 410, 308	(*)	10.5	32.7	33.9
Cheyenne.....				2, 839				(*)
Climax.....			1, 349				(*)	
Cooperatorka.....				38, 636				.3
Currell.....	130, 200	66, 604	119, 476	126, 577	1.2	.7	1.0	1.0
Diehl-Mediterranean.....	62, 500	15, 497	18, 760	31, 223	.6	.2	.2	.2
Dixon.....				4, 000				.1
Durum (varieties not reported).....	43, 200	7, 024	13, 103	4, 402	.4	.1	.1	(*)
Early Blackhull.....			248	78, 013			(*)	.6
Flint.....		907	151			(*)	(*)	
Fulcaster.....	111, 700	40, 491	70, 321	109, 170	1.0	.4	.6	.8
Fultz.....	334, 300	44, 827	75, 433	53, 122	3.0	.5	.6	.4
Fultz-Mediterranean.....	900	1, 054	5, 002		(*)	(*)	(*)	
Garnet.....				102				(*)
Gipsy.....	2, 200	837	2, 508	1, 020	(*)	(*)	(*)	(*)
Harvest Queen.....	509, 100	175, 332	227, 258	195, 665	4.5	1.8	1.9	1.5
Haynes Bluestem.....		174	764			(*)	(*)	
Iobred.....				10, 062			.2	.1
Jones Fife.....			37, 781	19, 191			.3	.2
Kanred.....	87, 200	1, 850, 479	1, 450, 057	1, 351, 688	.8	19.0	12.0	10.4
Kawvale.....				41, 487				.3
Kruse.....				570				(*)
Marquis.....	3, 200		16, 988	26, 084	(*)		.1	.2
Mediterranean.....	78, 300	38, 358	13, 167	28, 319	.7	.4	.1	.2
Nebraska No. 60.....			239	3, 159			(*)	(*)
Nigger.....	9, 400	22, 302	7, 842	23, 580	.1	.2	.1	.2
Poole.....	14, 200		13, 512	10, 489	.1		.1	.1
Preston.....			456				(*)	(*)
Purkof.....				42				(*)
Redhull.....			3, 292	43, 838			(*)	.3
Red May.....	141, 100	37, 927	14, 194	39, 863	1.3	.4	.1	.3

TABLE 1.—*Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued*

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Kansas—Continued.								
Red Rock	-----	260	8,305	6,504	(*)	0.1	0.1	-----
Red Wave	6,700	1,189	7,463	9,278	0.1	(*)	.1	.1
Russian Red	-----	-----	329	-----	-----	-----	(*)	-----
Sea Island	1,400	-----	764	-----	(*)	-----	(*)	-----
Superhard	-----	-----	86,424	130,621	-----	-----	.7	1.0
Tenmarq	-----	-----	-----	168,134	-----	-----	-----	1.3
Turkey	9,279,700	5,982,468	5,782,750	5,768,901	82.3	61.6	48.0	44.3
Valley	(*)	-----	487	-----	(*)	-----	(*)	-----
Others and not reported	400,766	399,700	125,990	267,011	3.4	4.2	1.0	2.1
Total	-----	-----	12,081,021	13,004,000	99.6	100.0	100.0	100.0
Kentucky:								
Ashland	(515)	(121)	(194)	(339)	-----	1.3	4.3	.9
China	1,800	2,415	8,753	3,758	-----	-----	.3	-----
Currell	69,200	16,030	20,467	40,223	2	8.3	10.0	10.0
Diehl-Mediterranean	300	-----	-----	2,004	(*)	-----	-----	.5
Durum (varieties not reported)	1,000	-----	975	-----	.1	-----	.5	-----
Flint	-----	-----	392	-----	-----	-----	.2	-----
Fulcaster	97,900	50,671	21,687	46,229	11.8	27.5	10.6	11.5
Fulhio	-----	-----	61	-----	-----	-----	(*)	-----
Fultz	279,200	42,489	84,687	166,703	33.6	23.1	41.5	41.4
Fultz-Mediterranean	25,700	3,637	3,855	4,683	3.1	2.0	1.9	1.2
Goldcoin	1,500	-----	-----	43	.2	-----	-----	(*)
Harvest Queen	-----	-----	-----	387	-----	-----	-----	.1
Iowin	-----	-----	93	-----	-----	-----	(*)	-----
Jones Fife	7,800	34	3,665	4,454	.9	(*)	1.8	1.1
Kinney	-----	-----	-----	1,127	-----	-----	-----	.3
Leap	1,700	1,410	-----	1,447	.2	.8	-----	.4
Longberry No. 1	3,900	-----	380	-----	.5	-----	.2	-----
Mediterranean	49,900	12,188	13,879	21,665	6.0	6.6	6.8	5.4
Nittany	-----	-----	-----	69	-----	-----	-----	(*)
Odesa	9,400	1,149	471	100	1.1	.6	.2	(*)
Poole	100,500	24,619	22,542	60,326	12.1	13.4	11.0	15.0
Purplestraw	400	-----	689	4,210	(*)	-----	.3	1.0
Red May	16,100	2,378	397	6,626	1.9	1.4	.3	1.6
Red Wave	34,900	2,422	65	4,292	4.2	1.3	(*)	1.1
Rice	7,000	3,312	480	5,503	.8	1.8	.3	.1
Rudy	5,700	2,269	1,651	7,333	.7	1.2	.8	1.8
Russian	-----	-----	118	-----	-----	-----	.1	-----
Russian Red	10,700	766	1,649	2,523	1.3	.4	.8	.6
Trumbull	-----	(*)	1,330	4,293	-----	(*)	.7	1.1
Turkey	1,200	152	2,110	4,503	.1	.1	1.0	1.1
Walker	3,500	463	54	151	.4	.3	(*)	(*)
Others and not reported	86,532	14,602	12,942	15,158	10.7	8.0	6.4	3.8
Total	-----	-----	204,131	402,903	98.2	98.5	100.0	100.0
Louisiana:								
Fultz-Mediterranean	(12)	(0)	(0)	(4)	40	11.7	-----	54.8
Purplestraw	200	-----	-----	33	11.7	-----	-----	45.2
Others and not reported	1,314	886	-----	-----	76.6	100.0	-----	-----
Total	1,714	886	-----	73	100.0	100.0	-----	100.0
Maine:								
Marquis	(48)	(6)	(0)	(2)	6,165	71.2	57.8	95.8
Red Fife	10,300	2,027	-----	147	13.8	33.2	-----	2.3
Others and not reported	2,000	1,164	-----	124	15.0	7.2	-----	1.9
Total	2,164	252	-----	-----	-----	-----	-----	-----
Total	-----	-----	-----	6,436	100.0	98.2	-----	100.0
Maryland:								
China	(127)	(74)	(107)	(100)	2,451	1.9	3.7	.6
Currell	12,500	17,693	7,942	16,456	13.3	11.4	4.9	4.0
Forward	88,300	55,137	7,826	16,208	-----	-----	1.5	4.0
Fulcaster	178,200	207,685	128,912	128,536	26.8	42.9	25.5	31.5
Fultz	117,400	70,551	36,657	9,615	17.7	14.6	7.2	2.3
Fultz-Mediterranean	19,100	1,709	2,664	2,598	2.9	.4	.5	.6
Leap	43,700	70,181	105,738	116,232	6.6	14.5	20.9	28.5
Mammoth Red	1,400	4,962	49,098	41,896	.2	1.0	9.7	10.3
Mediterranean	39,800	6,404	12,731	9,171	6.0	1.3	2.5	2.2
Nittany	-----	1,226	31,683	29,231	-----	.3	6.3	7.2
Poole	11,900	23,727	24,607	480	1.8	4.9	4.9	.1
Purplestraw	13,600	3,063	17,432	-----	2.0	.6	3.4	-----
Red May	-----	1,075	112	3,098	-----	.2	(*)	.8
Red Rock	-----	-----	347	-----	-----	-----	.1	-----

TABLE 1.—Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Maryland—Continued.								
Red Wave.....	9,400	4,449	1,187	3,116	1.4	0.9	0.2	0.8
Rudy.....	13,100	5,020	5,920	4,981	2.0	1.0	1.2	1.2
Silversheaf.....	20,400	.....	5,140	2,413	3.1	.....	1.0	.6
Others and not reported.....	92,695	11,727	43,620	21,581	13.0	2.3	8.6	5.3
Total.....	.....	.....	566,499	408,063	99.6	100.0	100.0	100.0
Massachusetts:								
Goldcoin.....	(16)	(2)	(0)	(1)	.....	.....	.....	.....
Marquis.....	1,000	41	.....	34	53.3	19.1	.....	18.6
Red Wave.....	.....	55	.....	18	.....	25.6	.....	18.6
Others and not reported.....	476	78	.....	27	25.4	36.2	.....	27.8
Total.....	.....	.....	.....	97	78.7	100.0	.....	100.0
Michigan:								
Baldrock.....	(571)	(209)	(301)	(297)	.....	.....	.....	.....
Berkeley Rock.....	.....	.....	16,815	21,780	.....	.....	2.1	2.5
Dawson.....	54,400	26,528	17,812	345,678	6.1	3.3	2.3	40.4
Diehl-Mediterranean.....	11,500	16,803	3,632	2,126	1.3	2.1	.5	.2
Durum (varieties not reported).....	5,700	.....	912	.....	.6	.....	.1	.....
Forward.....	.....	.....	913	.....	.....	.....	.1	.....
Fulcaster.....	4,900	9,884	7,277	6,205	.6	1.2	.9	.7
Goens.....	3,300	9,245	2,791	1,432	.4	1.2	.4	.2
Goldcoin.....	133,500	163,902	318,804	71,132	15.1	20.7	40.4	8.3
Harvest Queen.....	1,100	.....	339	.....	.1	.....	(*)	.....
Jones Fife.....	2,600	756	.....	274	.3	.1	.....	(*)
Kanred.....	2,800	471	.....	1,325	.3	.1	.....	.2
Mammoth Red.....	400	.....	388	.....	(*)	.....	(*)	.....
Marquis.....	59,300	1,224	3,157	2,591	6.7	.2	.4	.3
Martin.....	2,200	2,724	.....	757	.2	.3	.....	.1
Mediterranean.....	8,500	156	2,858	528	1.0	(*)	.4	.1
Michikof.....	.....	.....	342	.....	.....	.....	(*)	.....
Minturki.....	.....	.....	1,251	2,251	.....	.....	.2	.3
Nigger.....	27,500	14,985	9,198	12,758	3.1	1.9	1.2	1.5
Poole.....	22,200	39,058	14,339	14,792	2.5	4.9	1.8	1.7
Red Clawson.....	34,300	14,701	9,018	13,122	3.9	1.9	1.1	1.5
Red May.....	9,800	14,793	20,303	13,361	1.1	1.9	2.6	1.6
Red Rock.....	195,400	303,620	227,755	200,270	22.1	38.3	28.8	23.4
Red Wave.....	58,700	30,465	44,505	42,963	6.6	6.4	5.6	5.0
Rudy.....	18,500	3,503	4,144	2,162	2.1	.4	.5	.3
Russian.....	.....	16,054	4,682	.....	.....	2.0	.6	.....
Trumbull.....	.....	903	7,432	5,632	.....	.1	1.0	.7
Turkey.....	7,400	2,562	574	2,405	.8	.3	.1	.3
Valley.....	.....	.....	.....	1,157	.....	.....	.....	.1
Windsor.....	100	.....	1,070	995	(*)	.....	.1	.1
Others and not reported.....	176,960	75,038	69,834	64,082	20.1	9.4	8.8	7.5
Total.....	.....	.....	790,145	855,212	95.0	96.7	100.0	100.0
Minnesota:								
Acme.....	(1,008)	(259)	(390)	(481)	.....	.....	(*)	.....
Ceres.....	.....	.....	124	.....	.....	.....	1.5	21.3
Durum (varieties not reported).....	137,300	97,112	185,716	83,893	3.6	5.9	14.1	5.1
Garnet.....	.....	.....	3,935	.....	.....	.....	.....	.2
Harvest Queen.....	.....	.....	682	.....	.....	.....	.1	.....
Haynes Bluestem.....	361,800	40,777	5,141	7,937	9.5	2.5	.4	.5
Hope.....	.....	.....	8,496	.....	.....	.....	.....	.5
Humpback.....	18,400	956	665	139	.5	.1	.1	(*)
Java.....	.....	.....	272	.....	.....	.....	.....	(*)
Kanred.....	.....	673	1,716	259	.....	(*)	.1	(*)
Kota.....	.....	16,969	3,054	2,255	.....	1.0	.2	.1
Kubanka.....	.....	963	7,626	863	.....	.1	.5	.1
Marquillo.....	.....	.....	10,044	132,505	.....	.....	.8	8.1
Marquis.....	2,175,300	1,187,644	779,012	728,282	57.3	72.2	59.3	44.3
Mindum.....	.....	11,953	24,679	45,119	.....	.7	1.9	2.8
Minhardi.....	.....	.....	886	658	.....	.....	.1	(*)
Minturki.....	.....	30,855	80,861	153,026	.....	1.9	6.2	9.3
Pentad.....	300	17,496	6,110	6,110	(*)	1.1	.9	.4
Preston.....	800,700	89,061	47,108	31,797	21.1	5.4	3.6	1.9
Progress.....	.....	.....	3,312	.....	.....	.....	.....	.2
Quality.....	.....	(*)	11,918	13,679	.....	(*)	.9	.8
Red Fife.....	65,900	14,965	7,401	7,401	1.7	.9	.1	.5
Reward.....	.....	.....	370	8,546	.....	.....	(*)	.5
Ruby.....	.....	30,990	42,497	36,792	.....	1.9	3.2	2.2
Thatcher.....	.....	.....	1,823	.....	.....	.....	.....	.1
Turkey.....	62,200	65,098	64,118	12,506	1.6	4.0	4.9	.8
Others and not reported.....	168,502	31,311	15,081	4,595	4.6	1.9	1.1	.3
Total.....	.....	.....	1,314,757	1,644,000	99.9	99.6	100.0	100.0

TABLE 1.—*Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued*

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Mississippi:	(132)	(1)	(8)	(10)				
Flint.....				410				50.5
Purplestraw.....	2,200			33	24.2			4.1
Red May.....	2,700		120		29.7		31.4	
Rice.....		131	250	368		4.1	65.5	45.4
Others and not reported.....	3,883	3,109	12		42.8	95.9	3.1	
Total.....			382	811	96.7	100.0	100.0	100.0
Missouri:	(1009)	(244)	(502)	(609)				
Blackhull.....		515	5,431	1,764		(*)	.4	.1
Currell.....	155,300	20,078	137,946	91,039	3.4	1.4	9.0	5.5
Fulcaster.....	273,800	177,020	212,441	163,051	6.0	12.3	13.9	9.9
Fulhio.....		1,355	589	8,311		.1	(*)	.5
Fultz.....	1,608,900	517,215	377,196	421,527	35.2	35.9	24.6	25.7
Fultz-Mediterranean.....	92,900	22,273	8,558	12,824	2.0	1.5	.6	.8
Gipsy.....	3,300	1,560	6,059	4,778	.1	.1	.4	.3
Harvest Queen.....	176,400	49,374	54,339	94,766	3.9	3.4	3.5	5.8
Illini Chief.....	11,200		1,249		.2		.1	
Iobred.....			1,509	2,667			.1	.2
Ioturk.....				60				(*)
Jones Fife.....	29,100	516	1,295	4,426	.6	(*)	.1	.3
Kanred.....		27,900	19,376	8,247		1.9	1.3	.5
Mammoth Red.....	2,200		253		(*)		(*)	
Marquis.....	12,800		10		.3		(*)	
Mediterranean.....	341,600	63,747	40,532	49,859	7.5	4.4	2.6	3.0
Nigger.....	6,100		472		.1		(*)	
Odessa.....	7,600		534		.2		(*)	
Poole.....	172,000	125,174	106,160	115,515	3.8	8.7	6.9	7.0
Prosperity.....	17,100		1,290	5,353	.4		.1	.3
Purkof.....			424	2,824			(*)	.2
Purplestraw.....			5,814				.4	
Red May.....	443,200	112,743	290,397	460,163	9.7	7.8	18.9	28.0
Red Wave.....	78,000	76,042	43,728	54,197	1.7	5.3	2.9	3.3
Rudy.....	1,800		348		(*)		(*)	
Russian Red.....	11,900	13,686	889		.3	1.0	.1	
Sea Island.....	500		233		(*)		(*)	
Turkey.....	593,000	109,848	96,103	79,440	13.0	7.6	6.3	4.9
Valley.....				6,463				.4
Zimmerman.....	9,600		651		.2			(*)
Others and not reported.....	492,858	85,327	120,356	55,085	11.0	6.2	7.8	3.3
Total.....			1,533,531	1,643,010	99.6	97.6	100.0	100.0
Montana:	(246)	(256)	(464)	(455)				
Baart.....	(*)	5,769	2,675	1,997	(*)	.2	.1	.1
Big Club.....	1,500	16,332	1,285	189	.1	.5	(*)	(*)
Ceres.....			17,405	154,078			.4	4.4
Champlain.....	3,100		527		.2		(*)	
Club (varieties not reported).....	10,600	6,058	6,193	5,076	.6	.2	.1	.1
Defiance.....		124	240			(*)	(*)	
Dicklow.....	600	866	4,133	3,298	(*)	(*)	.1	.1
Durum (varieties not reported).....	269,300	115,833	40,621	28,340	15.8	3.7	.9	.8
Federation.....			19,658	30,128			.5	.9
Goldcoin.....	100	370	784	289	(*)	(*)	(*)	(*)
Haynes Bluestem.....	104,100	17,340	4,708	2,153	6.1	.6	.1	.1
Jenkin.....			1,713	1,221			(*)	(*)
Jones Fife.....	19,300	15,425	15,065	22,179	1.1	.5	.4	.6
Kahla.....	4,000	5,862	4,511		.2	.2	.1	
Kanred.....		2,663	7,238	6,152		.1	.2	.2
Karmont.....		1,272	76,673	90,295		(*)	1.7	2.6
Kitchener.....		1,066	770			(*)	(*)	
Komar.....				224				(*)
Kota.....		5,919	3,981	189		.2	.1	(*)
Ladoga.....	900	2,585	5,358	450	.1	.1	.1	(*)
Marquis.....	689,800	2,239,546	3,214,833	2,349,234	40.3	72.2	72.8	66.7
Mindum.....			70					(*)
Minhardi.....				1,120				(*)
Minturki.....								(*)
Mondak.....				(*)				(*)
Montana King.....			9,637	603			.2	(*)
Montana No. 36.....	100	22,474	31,028	18,674	(*)	.7	.7	.5
Mosida.....				303				(*)
Newturk.....			12,390	21,790			.3	.6
Pacific Bluestem.....	11,100		4,911	2,700	.6		.1	.1
Peliss.....	1,400	1,095	3,534		.1	(*)	.1	
Pentad.....	4,200	1,069		203	.2	(*)		(*)

TABLE 1.—*Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued*

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Montana—Continued.								
Power				4,426				0.1
Preston	22,800	2,477	14,537		1.3	0.1	0.3	
Quality	(*)	731	368	1,424	(*)	(*)	(*)	(*)
Red Bobs		13,387	8,631	1,658		.4	.2	.1
Red Fife	55,400	19,250	3,344		3.2	.6	.1	
Reliance				1,722				.1
Renfrew			5,713	638			.1	(*)
Reward			271	11,252			(*)	.3
Ruby		252	2,364	1,164		(*)	.1	(*)
Stanley	(*)		424		(*)		(*)	
Supreme			298,725	188,401			6.8	5.4
Triplet				973				(*)
Turkey	369,900	587,572	553,165	565,578	21.6	18.9	12.5	16.1
Others and not reported	138,402	14,861	41,075	4,585	8.4	.7	.9	.1
Total			4,418,588	3,523,000	99.9	99.9	100.0	100.0
Nebraska:								
Acme	(971)	(304)	(712)	(705)			.1	
Blackhull		1,023	20,189	39,483		(*)	.6	1.2
Ceres				95,605				2.9
Cheyenne				39,136				1.2
Converse	4,300			15,159	.1			.5
Dixon	300		12,712	26,873	(*)		.4	.8
Durum (varieties not reported)	205,400	69,352	47,865	31,495	4.9	2.3	1.3	.9
Fulcaster	800	16,807	12,212	13,240	(*)	.6	.3	.4
Fultz			153	70			(*)	(*)
Harvest Queen	1,400	553	18,899	20,028	(*)	(*)	.5	.6
Haynes Bluestem	28,700	461	9,089	2,455	.7	(*)	.2	.1
Iobred			561	3,193			(*)	.1
Java	10,900		193	7,785	.3		(*)	.2
Jones Fife			83				(*)	
Kahla		3,568	497		.1		(*)	
Kanred		787,114	499,524	291,124		26.1	13.5	8.7
Kota			135	126			(*)	(*)
Kruse				1,454			(*)	(*)
Kubanka			205				(*)	
Marquis	179,300	66,267	144,197	93,734	4.2	2.2	3.9	2.8
Michikof			160				(*)	
Minturki		5,629		1,155		.2		(*)
Nebraska No. 6		8,769	9,444	1,280		.3	.3	(*)
Nebraska No. 60		13,552	328,404	627,821		.5	8.9	18.9
Odessa	1,200	16,422	331		(*)	.5	(*)	
Pentad	700	7,215	2,206	3,399	(*)	.2	.1	.1
Preston	121,000	12,115	9,105	2,202	2.9	.4	.2	.1
Quality			435				(*)	
Red Fife	9,000	672	2,191	328	.2	(*)	.1	(*)
Red May	2,000	5,520	1,399		(*)	.2	(*)	
Red Rock		1,853	1,060			.1	(*)	
Ruby			275	73			(*)	(*)
Sea Island	7,900	7,264		2,905	.2	.2		.1
Superhard			289				(*)	
Turkey	3,499,000	1,910,904	2,522,403	1,982,598	82.7	63.5	68.2	59.5
Others and not reported	130,982	67,405	53,169	28,281	3.3	2.4	1.4	.9
Total			3,699,967	3,331,002	99.6	99.7	100.0	100.0
Nevada:								
Arizona No. 24	(23)	(12)	(27)	(21)			2.3	
Baart	200	2,626	2,145	1,621	.9	18.9	15.9	13.3
Club (varieties not reported)	3,800	644	2,690	215	17.3	4.6	19.9	1.8
Dicklow		199	815	1,320		1.4	6.0	10.8
Federation			2,921	3,794			21.4	31.2
Gaigalos			102				.8	
Hard Federation			672	275			5.0	2.3
Kanred				20				.2
Little Club	600			238	2.7			1.9
Marquis	3,000	1,795	299	267	13.6	12.9	2.2	2.2
Pacific Bluestem	6,700	1,780	1,157	1,359	30.5	12.8	8.8	11.2
Redchaff			872				6.4	
Sonora	800	1,674		974	3.6	12.1		8.0
Turkey	1,600	3,864	225	1,882	7.3	27.9	1.7	15.5
White Federation			860	197			6.4	1.6
Others and not reported	2,987	426	429		13.7	3.2	3.2	
Total			13,529	12,162	89.6	93.8	100.0	100.0

TABLE 1.—*Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued*

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
New Hampshire:	(26)	(1)	(0)	(1)				
Others and not reported.....	166			9	12.2			100.0
Total.....				9	12.2			100.0
New Jersey:	(35)	(22)	(29)	(38)				
Dawson.....			419				0.8	
Forward.....			4,427	5,610			8.3	10.9
Fulcaster.....	16,800	10,567	5,507	1,682	19.8	19.8	10.3	3.3
Fultz.....	3,000	4,741	1,878	308	3.5	8.8	3.5	.6
Goldcoin.....	100	367	982		.1	.7	1.8	
Leap.....	5,300	7,894	23,302	33,308	6.2	14.8	43.5	64.8
Mediterranean.....	26,900	7,244	266		31.7	13.6	.5	
Nittany.....		1,399	6,472	7,026		2.6	12.1	13.7
Red Rock.....			231	57			.4	.1
Red Wave.....	5,600	2,498	2,313	1,376	6.6	4.7	4.3	2.7
Trumbull.....			231				.4	
Others and not reported.....	25,293	14,178	7,551	2,016	29.9	26.8	14.1	3.9
Total.....			53,579	51,383	97.8	91.8	100.0	100.0
New Mexico:	(82)	(51)	(45)	(98)				
Baart.....	2,800	1,665	1,636	162	2.1	.8	.5	(*)
Blackhull.....			3,147	25,438			1.0	7.0
Defiance.....	3,400	1,383	841	703	2.5	.7	.3	.2
Durum (varieties not reported).....	9,600	9,046	3,163	1,642	7.1	4.4	1.0	.4
Kanred.....		10,165	106,615	70,799		4.9	33.3	19.4
Kota.....			740					.2
Marquis.....	8,100	7,532	7,711	13,945	6.0	3.6	2.4	3.8
Sonora.....	19,800	11,885	12,999	7,217	14.6	5.7	4.1	2.0
Turkey.....	83,100	159,226	182,953	238,548	61.5	76.7	57.2	65.4
Others and not reported.....	7,185	5,551	743	5,806	5.4	2.7	.2	1.6
Total.....			319,808	365,000	99.2	99.5	100.0	100.0
New York:	(300)	(108)	(129)	(183)				
Dawson.....	53,200	31,513	24,290	10,288	11.5	10.0	10.2	3.9
Forward.....		2,771	18,816	34,439		.9	7.9	13.2
Fulcaster.....	7,200	2,117	9,914	2,454	1.6	.7	4.2	.9
Fultz.....	7,000		222	506	1.5		.1	.2
Genesee Giant.....				415				.2
Goldcoin.....	222,000	216,793	137,935	125,466	47.9	69.1	57.7	48.0
Honor.....		4,718	17,368	68,451		1.5	7.3	26.2
Java.....	700			79	.2			(*)
Leap.....	300	2,291	1,826	1,833	1	.7	.8	.7
Marquis.....	52,500	3,219	4,844	3,154	11.3	1.0	2.0	1.2
Mediterranean.....	5,700	12,390	142	1,010	1.2	3.9	.1	.4
Nittany.....		282	1,306	118		.1	.5	.1
Red Clawson.....	4,500			441	1.0			.2
Red Fife.....	6,900			51	1.5			(*)
Red Wave.....	14,600	5,131	817	1,597	3.1	1.6	.3	.6
Silversheaf.....	400		693		.1		.2	
Valprize.....				4,816				1.8
Others and not reported.....	63,794	29,235	20,701	6,310	13.4	9.4	8.7	2.4
Total.....			238,874	261,428	94.4	98.9	100.0	100.0
North Carolina:	(559)	(111)	(224)	(283)				
Currell.....	22,000	4,394	2,331	2,997	3.5	1.3	.7	.6
Diehl-Mediterranean.....	300		1,102		(*)		.3	
Flint.....	32,800	15,667	18,752	46,187	5.3	4.7	5.3	9.3
Forward.....				7,819				1.6
Fulcaster.....	199,900	133,292	119,711	107,329	32.2	39.6	33.9	21.7
Fultz.....	18,400	15,381	18,325	13,463	3.0	4.6	5.2	2.7
Fultz-Mediterranean.....	7,500	14,568	1,349	456	1.2	4.3	.4	.1
Gleason.....				2,053				.4
Goldcoin.....	200	1,130	264		(*)	.3	.1	
Greesson.....	5,100	11,173	9,912	14,296	.8	3.3	2.8	2.9
Leap.....	153,100	60,468	82,593	139,485	24.7	18.0	23.4	28.1
Mediterranean.....	5,200	1,004	1,485		.8	.3	.4	
Oakley.....	1,500	1,763	485		.2	.5	.1	
Poole.....	300	244	671	446	(*)	.1	.2	.1
Purplestraw.....	86,500	36,670	47,218	81,770	13.9	10.9	13.4	16.5
Redhart.....			2,310	54,624			.7	11.0
Red May.....	15,400		8,768		2.5		2.5	
Red Wave.....	1,800	748	537		.3	.2	.1	
Rice.....	7,300	7,425	1,142	6,005	1.2	2.2	.3	1.2

TABLE 1.—*Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued*

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
North Carolina—Continued.								
Russian Red.....	2,400	1,049	226	-----	0.4	0.3	0.1	-----
V. P. I. 112.....	-----	-----	762	-----	-----	-----	.2	-----
V. P. I. 131.....	-----	-----	1,347	4,399	-----	-----	.4	0.9
Walker.....	-----	6	12	-----	-----	(*)	(*)	-----
Others and not reported.....	59,059	31,661	33,332	14,440	9.8	9.4	9.5	2.9
Total.....	-----	-----	352,634	495,769	99.8	100.0	100.0	100.0
North Dakota:								
	(706)	(364)	(796)	(766)				
Acme.....	(*)	5,922	11,573	4,099	(*)	.1	.1	(*)
Arnautka.....	-----	-----	5,658	3,002	-----	-----	.1	(*)
Axminster.....	-----	-----	183	-----	-----	-----	(*)	-----
Barnatka.....	-----	-----	4,495	-----	-----	-----	(*)	-----
Ceres.....	-----	-----	295,065	2,977,626	-----	-----	3.0	34.0
Durum (varieties not reported).....	2,611,500	1,872,671	2,326,758	778,322	28.7	22.5	23.3	8.9
Garnet.....	-----	-----	8,425	6,150	-----	-----	.1	.1
Ghirka.....	(*)	-----	930	-----	(*)	-----	(*)	-----
Haynes Bluestem.....	725,100	51,730	18,535	4,779	8.0	.6	.2	.1
Hope.....	-----	-----	-----	3,082	-----	-----	-----	(*)
Java.....	-----	2,275	1,277	2,474	-----	(*)	(*)	(*)
Kahla.....	14,700	33,991	19,363	1,559	.2	.4	.2	(*)
Kanred.....	-----	1,003	3,262	7,660	-----	(*)	(*)	.1
Komar.....	-----	-----	-----	1,843	-----	-----	-----	(*)
Kota.....	-----	411,659	82,444	35,997	-----	4.9	.8	.4
Kubanka.....	26,900	440,660	653,690	600,659	.3	5.3	6.9	6.9
Marquillo.....	-----	-----	1,766	-----	-----	-----	-----	(*)
Marquis.....	4,274,800	4,402,789	5,232,141	3,449,282	47.0	52.9	52.6	39.4
Marvel.....	-----	-----	935	8,879	-----	-----	(*)	.1
Mindum.....	-----	-----	295,245	352,981	-----	-----	3.0	4.0
Monad.....	-----	66,218	50,159	6,783	-----	.8	.5	.1
Montana King.....	-----	-----	29,075	7,456	-----	-----	.3	.1
Nodak.....	-----	(*)	32,465	2,374	-----	(*)	.3	(*)
Peliss.....	-----	3,960	343	5,904	-----	(*)	(*)	.1
Pentad.....	33,500	226,096	431,832	144,934	.4	2.7	4.3	1.7
Power.....	9,100	53,014	20,160	13,006	.1	.6	.2	.2
Prelude.....	-----	862	927	-----	-----	(*)	(*)	(*)
Preston.....	760,100	226,114	139,083	76,941	8.4	2.7	1.4	.9
Progress.....	-----	-----	7,221	18,118	-----	-----	.1	.2
Quality.....	-----	3,108	72,701	14,283	-----	(*)	.7	.2
Red Bobs.....	-----	671	464	-----	-----	(*)	(*)	-----
Red Fife.....	526,000	131,582	16,960	9,434	5.8	1.6	.2	.1
Reliance.....	-----	-----	311	-----	-----	(*)	(*)	-----
Reward.....	-----	-----	730	130,452	-----	(*)	(*)	1.5
Ruby.....	-----	271,699	92,217	28,192	-----	3.3	.9	.3
Supreme.....	-----	-----	1,115	-----	-----	-----	(*)	-----
Thatcher.....	-----	-----	-----	(*)	-----	-----	-----	(*)
Turkey.....	33,900	12,712	18,682	12,960	.4	.2	.2	.1
Whiteman.....	-----	-----	3,532	34,100	-----	-----	(*)	.4
Others and not reported.....	74,273	100,152	61,449	11,021	.6	1.4	.6	.1
Total.....	-----	-----	9,969,370	8,757,000	99.9	100.0	100.0	100.0
Ohio:								
	(813)	(396)	(410)	(668)				
Blackhull.....	-----	-----	66	-----	-----	-----	(*)	-----
Climax.....	-----	464	60	-----	-----	(*)	(*)	-----
Dawson.....	5,200	-----	-----	52	.2	-----	-----	(*)
Democrat.....	1,500	157	140	-----	.1	(*)	(*)	-----
Diehl-Mediterranean.....	1,600	1,217	208	-----	.1	.1	(*)	-----
Forward.....	-----	-----	-----	349	-----	-----	-----	(*)
Fulcaster.....	24,600	21,454	11,457	14,272	.8	1.2	.7	.7
Fulhio.....	-----	80,368	185,735	310,369	-----	4.4	11.9	15.6
Fultz.....	300,100	106,308	45,981	82,798	10.3	5.8	2.9	4.1
Fultz-Mediterranean.....	12,800	11,174	373	1,817	.4	.6	(*)	.1
Genesee Giant.....	-----	1,065	449	-----	-----	.1	(*)	-----
Gipsy.....	84,000	37,873	16,885	31,375	2.9	2.1	1.1	1.6
Gladden.....	7,700	98,806	41,324	34,896	.3	5.4	2.6	1.8
Goens.....	64,260	38,801	12,662	36,145	2.2	2.1	.8	1.8
Goldcoin.....	74,700	16,238	8,037	45,944	2.6	.9	.5	2.3
Leap.....	800	6,745	21,481	4,441	(*)	.4	1.4	.2
Marquis.....	24,900	570	2,668	1,914	(*)	(*)	(*)	.1
Martin.....	1,200	-----	550	-----	(*)	-----	-----	-----
Mealy.....	23,300	1,891	7,323	1,178	.8	.1	.5	.1
Mediterranean.....	55,500	28,701	11,657	8,640	1.9	1.6	.7	.4
Michikof.....	-----	-----	406	-----	-----	-----	(*)	-----
Minturki.....	-----	-----	-----	1,824	-----	-----	-----	.1
Nabob.....	-----	-----	257	1,057	-----	-----	(*)	.1

TABLE 1.—*Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued*

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Ohio—Continued.								
Nigger	103,200	97,144	45,410	66,713	3.5	5.3	2.9	3.3
Nittany	-----	-----	-----	733	-----	-----	-----	(*)
Penquite	(*)	-----	815	-----	(*)	-----	.1	-----
Poole	1,133,900	427,447	141,608	180,124	38.8	23.5	9.1	9.0
Portage	4,100	57,061	13,067	23,387	.1	3.1	.8	1.2
Preston	-----	839	1,478	929	-----	(*)	.1	(*)
Prosperity	11,400	-----	681	-----	.4	-----	(*)	-----
Purkof	-----	-----	-----	40	-----	-----	-----	(*)
Red May	15,300	2,957	14,611	8,124	.5	.2	.9	.4
Red Rock	2,900	2,647	279	722	.1	.1	(*)	(*)
Red Wave	249,200	37,893	15,378	19,062	8.5	2.1	1.0	1.0
Rudy	46,200	14,445	13,211	6,220	1.6	.8	.8	.3
Rupert	10,300	-----	503	1,099	.4	-----	(*)	.1
Russian	-----	197	2,352	5,159	-----	(*)	.2	.3
Russian Red	34,300	12,498	396	304	1.2	.7	(*)	(*)
Trumbull	1,900	583,547	833,315	1,011,107	.1	32.1	53.6	50.7
Turkey	6,100	8,620	9,733	4,012	.2	.5	.6	.2
Wyandotte	700	-----	-----	298	(*)	-----	-----	(*)
Others and not reported	580,792	86,039	103,184	88,771	19.8	4.8	6.6	4.5
Total	-----	-----	1,563,740	1,993,875	98.7	98.0	100.0	100.0
Oklahoma:								
Alton	(429)	(167)	(423)	(533)	-----	-----	.1	.2
Blackhull	-----	428,935	1,550,778	1,107,094	-----	12.2	33.9	31.3
Cheyenne	-----	-----	-----	600	-----	-----	-----	(*)
Currell	70,400	65,271	73,544	159,353	1.5	1.9	1.6	4.5
Denton	-----	-----	1,322	-----	-----	-----	(*)	-----
Diehl-Mediterranean	2,400	15,657	4,168	1,760	.1	.4	.1	.1
Durum (varieties not reported)	9,000	-----	3,624	-----	.2	-----	.1	-----
Eagle Chief	-----	-----	6,881	19,393	-----	-----	.2	.6
Fulcaster	322,400	185,006	98,287	103,338	6.8	5.3	2.1	2.9
Fultz	155,900	20,425	21,352	37,860	3.3	.6	.5	1.1
Harvest Queen	218,200	112,794	38,445	64,502	4.6	3.2	.8	1.8
Iobred	-----	-----	1,244	-----	-----	-----	-----	(*)
Jones Fife	-----	-----	6,079	14,826	-----	-----	.1	.4
Kanred	10,300	685,337	341,075	177,199	.2	19.5	7.5	5.0
Marquis	-----	-----	6,577	-----	-----	-----	.1	-----
Mediterranean	215,800	47,889	44,233	73,992	4.6	1.4	1.0	2.1
Nebraska No. 60	-----	-----	2,000	2,236	-----	-----	-----	.1
Nigger	-----	-----	3,234	-----	-----	-----	(*)	-----
Penquite	-----	9,292	3,234	-----	-----	.3	.1	-----
Poole	700	-----	7,820	1,388	(*)	-----	.2	(*)
Redhull	-----	-----	3,963	39,211	-----	-----	.1	1.1
Red May	39,800	12,372	45,748	20,745	.8	.4	1.0	.6
Red Rock	-----	3,901	6,334	-----	-----	.1	.1	-----
Rudy	8,500	-----	2,859	-----	.2	-----	.1	-----
Sibley No. 81	-----	-----	-----	22,737	-----	-----	-----	.6
Superhard	-----	-----	12,922	23,767	-----	-----	.3	.7
Tenmarq	-----	-----	-----	1,505	-----	-----	-----	(*)
Turkey	3,235,500	1,835,532	2,170,834	1,589,960	68.6	52.3	47.4	44.9
Walker	1,800	-----	302	-----	(*)	-----	(*)	-----
Others and not reported	404,505	85,072	120,106	71,659	8.7	2.3	2.6	2.0
Total	-----	-----	4,575,558	3,540,833	99.6	99.9	100.0	100.0
Oregon:								
Albit	(161)	(96)	(243)	(264)	-----	-----	-----	4.3
Arc	-----	-----	-----	35,842	-----	-----	-----	1.0
Bart	39,700	6,504	14,117	8,700	-----	-----	-----	1.5
Big Club	3,600	986	577	12,151	3.7	.8	1.3	-----
Bluechaff	(*)	1,922	930	250	(*)	.1	.1	(*)
Club (varieties not reported)	58,200	13,702	7,442	3,773	5.4	1.6	.7	.5
Defiance	18,500	5,007	2,628	3,163	1.7	.6	.2	.4
Dicklow	-----	1,746	771	285	-----	.2	.1	(*)
Durum (varieties not reported)	1,000	-----	222	-----	.1	-----	(*)	-----
Eaton	5,200	6,945	9,996	2,877	.5	.8	.9	.3
Federation	-----	14,255	248,215	228,157	-----	1.7	23.1	27.3
Foisy	41,300	11,155	1,431	-----	3.8	1.3	.1	-----
Galgalos	16,500	12,019	6,587	3,952	1.5	1.4	.6	.5
Garnet	-----	-----	-----	13	-----	-----	-----	(*)
Goldcoin	155,500	80,016	144,168	86,916	14.4	10.4	13.4	10.4
Golden	-----	-----	-----	181	-----	-----	-----	(*)
Hard Federation	-----	9,677	34,993	5,877	-----	1.1	3.3	.7
Hard Federation 31	-----	-----	-----	4,276	-----	-----	-----	.5
Hood	-----	-----	-----	1,970	-----	-----	-----	.2
Huston	22,400	25,081	6,626	12,643	2.1	2.9	.6	1.5
Hybrid 63	17,600	5,840	-----	5,449	1.6	.7	-----	.7

TABLE 1.—*Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued*

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Oregon—Continued.								
Hybrid 123	1,200	1,387	1,305	871	0.1	0.2	0.1	0.1
Hybrid 128	103,300	253,062	135,434	78,399	9.6	29.4	12.6	9.4
Hybrid 143		844		4,133		.1		.5
Imbler				795				.1
Jenkin	4,500	16,891	21,053	18,346	.4	2.0	2.0	2.2
Jones Fife		7,229	406			.8		
Kinney	23,400	8,353	9,865	6,602	2.2	1.0	.9	.8
Little Club	32,100	6,387	7,999	2,053	3.0	.7	.7	.3
Marquis	23,700	14,376	14,007	8,252	2.2	1.7	1.3	1.0
Mayview			322	1,816			(*)	.2
Mosida			505	3,781			(*)	.5
New Zealand			49	1,752			(*)	.2
Odessa		699		374		.1		.1
Onas			267				(*)	
Oregon Zimmerman			3,474	14,278			.3	1.7
Oro			774	2,657			.1	.3
Pacific Bluestem	121,700	27,916	14,903	7,825	11.3	3.2	1.4	.9
Prohibition	24,600	15,522	5,928	6,916	2.3	1.8	.6	.8
Quality			2,360	205			.2	(*)
Redchaff	22,000	2,077	6,559	3,901	2.0	.2	.6	.5
Red Fife	2,400		373	373	.2			.1
Red Russian	7,700	11,330	3,120	1,341	.7	1.3	.3	.2
Ridit			2,257	9,276			.2	1.1
Rink	14,400	19,105	30,053	7,685	1.3	2.2	2.8	.9
Rio			871	68			(*)	.1
Sea Island			64	68			(*)	(*)
Sol (Sun)		363	17			(*)	(*)	(*)
Sonora	12,600	1,979	5,017	262	1.2	.2	.5	(*)
Surprise	1,000		13	202	.1		(*)	(*)
Triplet		876	3,917	20,802		.1	.4	2.5
Turkey	142,400	223,572	262,879	167,126	13.2	26.0	24.6	20.0
White Winter	50,700	27,923	25,560	14,951	4.7	3.2	2.4	1.8
Wilhelmina			23,004	25,901			2.1	3.1
Others and not reported	97,947	15,035	15,421	6,763	9.0	1.9	1.4	.8
Total			1,075,241	835,052	98.6	99.8	100.0	100.0
Pennsylvania:								
	(454)	(288)	(411)	(448)				
Berkeley Rock			618				.1	
China	42,400	33,759	4,191	4,332	3.0	3.0	.4	.5
Climax	6,000		3,471	426	.4		.4	.1
Democrat	600		498	66	(*)		.1	(*)
Dieh-Mediterranean	20,200	6,505		280	1.4	.6		(*)
Forward		2,216	115,829	156,184		.2	11.7	16.5
Fulcaster	335,200	202,436	80,731	81,232	23.4	18.2	8.2	8.6
Fulhio		319	1,353	2,687		(*)	.1	.3
Fultz	236,500	80,981	20,915	18,233	16.5	7.3	2.1	1.9
Goetz-Mediterranean	22,200	6,647	506	374	1.6	.6	.1	(*)
Goens	500		321	(*)				(*)
Goldcoin	13,700	4,514	3,984	519	1.0	.4	.4	.1
Grandprize	14,500	2,155	1,036	2,504	1.0	.2	.1	.3
Honor				446				.1
Jones Fife	6,100	105	345	217	.4	(*)	(*)	(*)
Kanred				212				
Leap	25,800	219,099	251,397	249,583	1.8	19.7	25.5	26.4
Longberry No. 1			813				.1	
Marquis	2,600	38	793	176	.2	(*)	.1	(*)
Mealy	17,900	3,726	641	1,288	1.3	.3	.1	.2
Mediterranean	132,600	22,477	7,977	13,098	9.3	2.0	.8	1.4
Nittany		254,530	324,371	324,182		22.9	32.9	34.3
Poole	91,000	28,504	5,231	6,716	6.4	2.6	.5	.7
Prosperity	4,500	225	281		.3	(*)	(*)	
Purkof			119	1,220			(*)	.1
Red Clawson	3,600		967		.3		.1	
Red May	6,100	1,408	2,152	210	.4	.1	.2	(*)
Red Rock		10,136	5,253	6,960		.9	.5	.7
Red Wave	107,700	46,578	12,970	9,566	7.5	4.2	1.3	1.0
Rudy	52,200	24,141	18,145	2,766	3.7	2.2	1.8	.3
Russian			338				(*)	
Russian Red	7,200	442	29,437		.5	(*)	3.0	
Silversheaf	2,900		217		.2		(*)	
Trumbull		800	2,718	3,233		.1	.3	.3
Turkey	1,900	1,239	634		.1	.1	.1	
Valley		465	106			(*)	(*)	
Others and not reported	261,937	149,291	89,063	58,809	18.4	13.4	9.0	6.2
Total			987,100	945,940	99.1	99.0	100.0	100.0

TABLE 1.—*Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued*

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Rhode Island:								
Others and not reported	(2) 106	(0) 18	(0)	(1) 54	100.0	100.0	-----	100.0
Total	-----	-----	-----	54	100.0	100.0	-----	100.0
South Carolina:	(295)	(119)	(132)	(197)				
Flint	7,300	10,026	4,966	37,655	8.5	19.3	9.5	24.1
Forward				961				.6
Fulcaster	3,100	4,737	3,513	3,006	3.6	9.1	7.3	1.9
Fultz	1,500	495	751	2,413	1.7	1.0	1.4	1.6
Leap	13,200	2,629	2,112	4,282	15.3	5.0	4.1	2.8
Purplestraw	32,800	17,231	19,428	53,735	38.1	33.1	37.3	34.4
Redhart				50,515				32.5
Red May	17,900		16,642		20.8		31.9	
Rupert			154				.3	
Others and not reported	9,124	5,593	4,263	3,333	10.6	10.7	8.2	2.1
Total	-----	-----	52,129	156,230	98.6	78.2	100.0	100.0
South Dakota:	(755)	(356)	(368)	(555)				
Acme		55,226	48,654	101,216		2.3	1.4	3.1
Alaska			58				(*)	
Arnautka		18,768	3,875	8,505		.8	.1	.3
Ceres			14,563	822,493			.4	25.2
Durum (varieties not reported)	654,500	798,683	769,275	190,645	16.8	33.8	21.7	5.8
Garnet			533	492			(*)	(*)
Haynes Bluestem	153,900	12,380	26,002	3,064	4.0	.5	.7	.1
Hope			3,405	3,617			.1	.1
Java				7,849				.2
Kahla	800	2,158	3,870	109	(*)	.1	.1	(*)
Kanred		28,113	15,155	25,496		1.2	.4	.8
Kirchener				56				(*)
Komar				7,760				.2
Kota		35,963	157,736	18,918		1.5	4.5	.6
Kubanka	22,800	34,518	33,740	84,542	.6	1.5	1.0	2.6
Marquillo			106	586			(*)	(*)
Marquis	2,385,600	1,114,250	1,668,192	1,402,053	61.2	47.1	47.1	43.0
Marvel			2,148	333			.1	(*)
Mindum			2,227	45,702				1.4
Minturki			422	632			(*)	(*)
Monad		17,867	44,523	11,239		.8	1.3	.3
Montana King				200				(*)
Nebraska No. 60				346				(*)
Nodak			4,445	15,261			.1	.5
Peliss			2,291	19,621			.1	.6
Pentad	10,600	88,664	545,382	143,223	.3	3.7	15.4	4.4
Prelude			1,305				(*)	(*)
Preston	401,000	46,145	39,198	8,640	10.3	2.0	1.1	.3
Progress				1,416				(*)
Quality		3,362	23,852	53,728		.1	.7	2.6
Red Life	35,900	3,086	2,037	1,419	.9	.1	.1	(*)
Reward			5,149	80,702			.1	2.5
Ruby		25,980	40,669	9,215		1.1	1.1	.3
Turkey	56,800	53,350	65,821	158,498	1.5	2.3	1.9	4.9
Others and not reported	171,711	25,276	14,678	5,124	4.4	1.1	.4	.2
Total	-----	-----	3,539,320	3,263,000	100.0	100.0	100.0	100.0
Tennessee:	(526)	(66)	(161)	(235)				
Ashkof				451				.1
Currell	29,600	8,337	22,356	28,283	4.3	2.9	8.0	6.7
Diehl-Mediterranean	4,600	3,416	3,614	282	.7	1.2	1.3	.1
Flint	400	5,153	2,458	34,355	.1	1.8	.9	8.2
Forward				21,216				5.1
Fulcaster	277,900	123,663	112,129	186,963	40.5	43.0	40.1	44.7
Fultz	95,800	31,039	47,008	60,893	14.0	10.8	16.8	14.6
Fultz-Mediterranean	11,100	3,019	314		1.6	1.0	.1	-----
Gold Drop	800	276		3,425	.1	.1		.8
Jones Fife		920	244	9,342			.3	2.2
Leap	23,700	10,245	7,365	6,923	3.5	3.6	2.6	1.6
Mediterranean	23,600	20,462	22,498	19,249	3.4	7.1	8.0	4.6
Nittany			197	401			.1	.1
Odessa	3,700		1,913		.5		.7	-----
Poole	37,200	6,309	8,536	23,034	5.4	2.2	3.0	5.5
Purplestraw	6,900	394	5,853	958	1.0	.1	2.1	.2
Red May	41,900		14,958		6.1		5.3	-----
Red Russian		1,170		268			.4	.1
Red Wave	1,100	412	277	213	.2	.1	.1	.1

TABLE 1.—Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Tennessee—Continued.								
Rice.....	14,800	26,007	792	4,056	2.2	9.0	0.3	1.0
Rupert.....	2,200	8,939	5,265	.....	.3	3.1	1.9	.....
Russian Red.....	2,700	81	88	2,160	.4	(*)	(*)	.5
V. P. I. 112.....	.....	.....	733	1,075	.....	.....	.3	.3
V. P. I. 131.....	.....	.....	2,396	483	.....	.....	.8	.1
Walker.....	4,500	1,145	775	.....	.7	.4	.3	.....
Others and not reported.....	82,397	28,769	20,166	14,198	12.0	10.3	7.2	3.4
Total.....	.....	.....	279,885	418,228	97.0	97.4	100.0	100.0
Texas:								
.....	(692)	(164)	(242)	(442)	.....	.....	.....	.....
Arnautka.....	14,400	2,112	7,951	6,764	.6	.2	.3	.2
Blackhull.....	.....	397	391,869	936,846	.....	(*)	13.2	22.9
Currell.....	.....	120	5,375	842	.....	(*)	.2	(*)
Denton.....	.....	.....	14,948	48,596	.....	.....	.5	1.2
Dicklow.....	.....	.....	2,866	.....	.....	.....	.....	.1
Durum (varieties not reported).....	26,000	18,255	41,781	19,121	1.1	1.4	1.4	.5
Eagle Chief.....	.....	.....	821	.....	.....	.....	.....	(*)
Fulcaster.....	43,400	22,690	14,136	14,046	1.8	1.7	.5	.3
Fultz.....	22,200	2,688	2,909	2,078	.9	.2	.1	.1
Harvest Queen.....	.....	271	.....	148	.....	(*)	.....	(*)
Jones Fife.....	.....	.....	429	1,282	.....	.....	(*)	(*)
Kanred.....	.....	411,803	588,300	659,854	.....	31.4	19.8	16.1
Kubanka.....	400	724	.....	396	(*)	.1	.....	(*)
Marquis.....	3,100	13,758	34,326	5,296	.1	1.0	1.2	.1
Mediterranean.....	1,331,900	195,050	292,353	215,504	55.5	14.9	9.8	5.3
Mindum.....	.....	.....	2,527	.....	.....	.....	.....	.1
Preston.....	.....	2,696	7,006	.....	.....	.2	.2	.....
Red May.....	7,000	2,694	2,235	4,188	.3	.2	.1	.1
Russian Red.....	15,000	.....	10,735	.....	.6	.....	.4	.....
Sonora.....	2,400	153	30	.....	.1	(*)	(*)	.....
Tenmarq.....	.....	.....	8,107	.....	.....	.....	.....	.2
Turkey.....	813,200	570,786	1,527,123	2,109,177	33.9	43.5	51.4	51.6
White Mediterranean.....	.....	.....	1,554	.....	.....	.....	.....	(*)
Others and not reported.....	115,879	61,250	28,005	46,987	4.8	4.6	.9	1.2
Total.....	.....	.....	2,969,511	4,087,000	99.7	99.4	100.0	100.0
Utah:								
.....	(126)	(82)	(110)	(151)	.....	.....	.....	.....
Baart.....	.....	1,985	4,826	6,133	.....	1.0	1.8	3.1
Big Club.....	100	.....	103	.....	(*)	.....	(*)	.....
Blackhull.....	.....	.....	1,074	.....	.....	.....	.....	.5
Club (varieties not reported).....	24,300	8,289	8,810	3,594	9.1	4.3	3.3	1.8
Defiance.....	2,500	1,367	305	.....	.9	.7	.1	.....
Dicklow.....	3,500	26,776	48,989	32,144	1.3	13.8	18.4	16.1
Durum (varieties not reported).....	100	.....	2,713	.....	(*)	.....	1.0	.....
Federation.....	.....	45	18,309	25,654	.....	(*)	6.9	12.8
Genesee Giant.....	1,600	472	376	6	.2	.2	.2	.2
Goldcoin.....	22,700	4,998	2,104	2,116	8.5	2.6	.8	1.1
Jones Fife.....	3,100	652	155	298	1.2	.3	.1	.1
Kanred.....	.....	3,436	15,406	.....	.....	1.8	5.8	.....
Karmont.....	.....	.....	689	153	.....	.....	.3	.1
Kofod.....	7,900	5,713	2,709	1,071	2.9	2.9	1.0	.5
Little Club.....	1,800	186	.....	929	.7	.1	.....	.5
Lofthouse.....	2,900	635	2,498	802	1.1	.3	1.0	.4
Marquis.....	15,600	5,696	2,900	2,300	5.8	2.9	1.1	1.2
New Zealand.....	.....	3,644	832	42	.....	1.9	.3	(*)
Odessa.....	8,500	2,472	276	1,536	3.2	1.3	.1	.8
Pacific Bluestem.....	11,700	7,749	3,130	2,717	4.4	4.0	1.2	1.4
Powerclub.....	.....	.....	1,464	1,457	.....	.....	.6	.7
Redchaff.....	.....	.....	549	.....	.....	.....	.2	.....
Red Fife.....	(*)	.....	85	218	(*)	.....	(*)	.1
Red Wave.....	.....	533	1,357	.....	.....	.3	.5	.....
Relief.....	.....	.....	77	.....	.....	.....	.....	(*)
Ridit.....	.....	.....	940	.....	.....	.....	.....	.5
Ruby.....	.....	.....	2,186	641	.....	.....	.8	.3
Sevier.....	900	2,226	2,872	179	.3	1.1	1.1	.1
Sherman.....	.....	.....	3,447	.....	.....	.....	.....	1.7
Silvercoin.....	1,600	1,389	5,648	1,258	.6	.7	2.1	.6
Silversheaf.....	.....	.....	537	.....	.....	.....	.....	.3
Sonora.....	8,100	4,049	2,087	1,742	3.0	2.1	.8	.9
Surprise.....	23,400	1,167	187	994	8.7	.6	.1	.5
Touse.....	18,600	5,942	4,874	2,483	6.9	3.1	1.8	1.2
Turkey.....	83,300	90,090	102,152	77,079	31.0	46.3	38.5	38.5
Utac.....	.....	.....	448	610	.....	.....	.2	.3
Utah Kanred.....	.....	.....	21,084	26,140	.....	.....	7.9	13.1
Others and not reported.....	26,257	14,690	5,952	1,251	9.8	7.5	2.2	.6
Total.....	.....	.....	265,699	199,992	100.0	99.8	100.0	100.0

TABLE 1.—Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Vermont:	(32)	(3)	(0)	(5)				
Marquis.....	5,600	538	-----	375	49.7	41.2	-----	76.1
Others and not reported.....	5,076	769	-----	118	45.0	58.8	-----	23.9
Total.....	-----	-----	-----	493	94.7	100.0	-----	100.0
Virginia:	(548)	(195)	(364)	(314)				
China.....	2,600	1,794	276	-----	.3	.3	(*)	-----
Currell.....	15,700	10,282	8,973	1,149	1.6	1.7	1.4	.2
Diehl-Mediterranean.....	1,400	-----	293	-----	.1	-----	(*)	-----
Flint.....	41,500	29,754	38,279	48,394	4.2	5.0	5.8	8.0
Forward.....	-----	-----	4,325	13,921	-----	-----	.7	2.3
Fulcaster.....	378,300	326,521	249,293	233,462	38.1	54.5	38.0	38.6
Fulho.....	-----	-----	411	1,841	-----	-----	.1	.3
Fultz.....	103,800	39,214	15,359	17,481	10.5	6.5	2.3	2.9
Fultz-Mediterranean.....	6,400	6,682	4,303	2,640	.6	1.1	.7	.4
Leap.....	226,600	102,442	123,340	112,695	22.8	17.1	18.8	18.6
Mediterranean.....	61,500	24,130	5,766	2,977	6.2	4.0	.9	.5
Nittany.....	-----	-----	5,094	8,679	-----	-----	.8	1.4
Poole.....	4,700	2,351	830	-----	.5	.4	.1	-----
Purplestraw.....	3,100	6,374	12,021	24,886	.3	1.1	1.8	4.1
Redhart.....	-----	-----	313	939	-----	-----	.1	.1
Red May.....	1,700	9,275	441	-----	.2	1.5	.1	.2
Red Rock.....	-----	-----	774	-----	-----	-----	.1	-----
Red Wave.....	11,500	238	8,768	4,478	1.2	(*)	1.3	.7
Rupert.....	-----	-----	180	-----	-----	-----	(*)	-----
Russian Red.....	1,400	-----	2,705	4,540	.1	-----	.4	.7
V. P. I. 112.....	-----	-----	30,995	11,475	-----	-----	4.7	1.9
V. P. I. 131.....	-----	-----	76,370	100,756	-----	-----	11.6	16.7
Walker.....	-----	-----	234	-----	-----	-----	-----	(*)
Others and not reported.....	126,161	40,001	68,172	14,349	12.7	6.8	10.4	2.4
Total.....	-----	-----	656,968	605,119	99.4	100.0	100.0	100.0
Washington:	(257)	(120)	(236)	(475)				
Albit.....	-----	-----	75,812	282,631	-----	-----	3.3	14.6
Allen.....	13,400	3,263	-----	144	.5	.2	(*)	(*)
Baart.....	305,600	254,846	458,052	502,689	12.3	14.6	20.0	26.0
Big Club.....	3,700	48	855	2,205	.1	(*)	(*)	.1
Bluechaff.....	-----	-----	216	-----	-----	-----	-----	-----
Bunyip.....	-----	-----	9,380	779	-----	-----	.4	(*)
Club (varieties not reported).....	112,500	42,224	29,027	2,062	4.5	2.4	1.3	.1
Coppel.....	4,800	23,754	3,155	367	.2	1.4	.1	(*)
Currawa.....	-----	-----	-----	6,171	-----	-----	-----	.3
Dale.....	-----	-----	140	-----	-----	-----	-----	(*)
Dicklow.....	-----	389	6,319	1,841	-----	(*)	.3	.1
Federation.....	-----	1,596	227,983	189,192	-----	.1	9.9	9.8
Galgalos.....	-----	-----	315	-----	-----	-----	(*)	-----
Goldcoin.....	225,500	103,879	159,650	72,202	9.0	5.9	7.0	3.7
Hard Federation.....	-----	655	9,069	1,567	-----	(*)	.4	.1
Hybrid 123.....	26,900	50,120	24,453	2,166	1.1	2.9	1.1	.1
Hybrid 128.....	184,000	160,538	195,941	63,868	7.4	9.2	8.5	3.3
Hybrid 143.....	49,500	11,071	3,332	-----	2.0	.6	.1	-----
Jenkin.....	40,700	60,309	33,465	13,315	1.6	3.5	1.5	.7
Jones Fife.....	215,900	133,395	54,481	20,368	8.7	7.6	2.4	1.1
Kanred.....	-----	-----	4,992	-----	-----	-----	-----	.3
Little Club.....	19,200	150	4,683	1,682	.8	(*)	.2	.1
Major.....	-----	-----	317	-----	-----	-----	-----	(*)
Marquis.....	231,700	57,883	60,622	31,072	9.3	3.3	2.6	1.6
Martin.....	13,700	742	95	74	.5	(*)	(*)	(*)
Mosida.....	-----	-----	-----	1,165	-----	-----	-----	.1
Onas.....	-----	-----	367	-----	-----	-----	(*)	-----
Pacific Bluestem.....	620,500	227,265	206,312	95,737	24.9	13.0	9.0	5.0
Pilcrav.....	-----	-----	13,408	20,828	-----	-----	.6	1.1
Quality.....	-----	3,449	-----	986	-----	.2	.1	.1
Red Bobs.....	-----	-----	3,684	717	-----	-----	.2	(*)
Redchaff.....	13,600	527	38	367	.5	(*)	(*)	(*)
Red Russian.....	108,400	28,800	25,303	6,441	4.3	1.6	1.1	.3
Ridit.....	-----	(*)	128,203	111,030	-----	(*)	5.6	5.8
Ruby.....	-----	-----	5,906	637	-----	-----	.3	(*)
Ruddy.....	-----	-----	597	-----	-----	-----	(*)	-----
Sol (Sun).....	800	390	1,050	490	(*)	(*)	.1	(*)
Squareheads Master.....	-----	-----	850	-----	-----	-----	-----	(*)
Surprise.....	(*)	-----	12,176	2,707	(*)	-----	.5	.1
Triplet.....	(*)	81,338	152,326	97,740	-----	4.7	6.6	5.1
Turkey.....	190,400	427,252	357,371	390,752	7.6	24.5	15.6	20.2
White Odessa.....	-----	-----	-----	382	-----	-----	-----	(*)

TABLE 1.—Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Washington—Continued.								
White Winter		1,302	996	1,261		0.1	(*)	0.1
Wilhelmina				81				(*)
Others and not reported	91,660	65,078	27,837	1,736	3.8	3.9	1.2	.1
Total			2,295,042	1,933,967	99.1	99.7	100.0	100.0
West Virginia:								
	(307)	(102)	(100)	(179)				
Flint	400	506		558	.1	.5		.4
Forward				630				.4
Fulcaster	86,800	40,242	52,734	60,517	29.1	36.2	50.6	41.8
Fulhio		159	28	641		1	(*)	.4
Fultz	47,900	9,194	8,958	22,538	16.1	8.3	8.6	15.6
Fultz-Mediterranean	14,100	517		26	4.7	.5		(*)
Gipsy	100		128	239	(*)			.2
Jones Fife	500			44	.2			(*)
Leap	9,300	7,766	16,596	24,134	3.1	7.0	15.9	16.7
Mediterranean	31,400	4,451	5,824	1,295	10.5	4.0	5.6	.9
Nigger	100		154	585	(*)			.4
Nittany		30	452	5,823		(*)		.4
Poole	39,000	8,273	7,100	10,518	13.1	7.4	6.8	7.3
Red Wave	17,800	5,991	867	4,315	6.0	5.4	.8	3.0
Rice	1,000	965	787	1,436	.3	.9	.8	1.0
Russian Red	100			349	(*)			.2
Trumbull		207	3,721	6,868		.2	3.6	4.8
Turkey	(*)	25	522	56	(*)	(*)	.5	(*)
V. P. I. 131				654			(*)	.5
Others and not reported	29,236	30,292	6,389	3,459	10.0	27.0	6.1	2.4
Total			104,282	144,685	93.2	97.5	100.0	100.0
Wisconsin:								
	(590)	(133)	(118)	(358)				
Ashkof			1,382	1,577			1.5	1.3
Bacska	900	1,259	2,281	16	.2	1.1	2.4	(*)
Beloglina		34		27		(*)		(*)
Ceres				135				.1
Dixon	(*)		214	294	(*)		.2	.2
Durum (varieties not reported)	12,100	1,805	2,762	2,448	2.3	1.6	2.9	2.0
Fultz	2,100	729	2,462	312	.4	.6	2.6	.3
Gladden			51				.1	
Goldcoin	400		367	74	.1		.4	.1
Golden Cross			111				.1	
Haynes Bluestem	40,600	5,633	3,186	1,542	7.7	4.9	3.4	1.2
Hope			365					.3
Kanred		67		402		.1		.3
Marquillo			169					.1
Marquis	313,400	39,357	31,179	29,669	59.2	34.1	33.0	23.7
Martin			268					.2
Minhardi			327					.3
Minturki		64	534	863		.1	.6	.7
Pentad			48					(*)
Prelude	2,700	198		433	.5	.2		.3
Preston	28,800	4,568		2,702	5.1	4.0		2.2
Progress		397	24,471	67,098		.3	25.9	53.7
Quality				23				(*)
Red Fife	13,300	915		18	2.5	.8		(*)
Red May	3,500	3,668	5,052	503	.7	3.2	5.4	.4
Ruby				107				.1
Sturgeon				21				(*)
Turkey	39,600	39,286	12,541	13,821	7.5	34.0	13.3	11.1
Wisconsin Pedigree No. 2	6,900	3,123	3,689	1,373	1.3	2.7	3.9	1.1
Others and not reported	62,645	12,215	4,105	365	11.6	10.5	4.3	.3
Total			94,387	125,000	99.1	98.2	100.0	100.0
Wyoming:								
	(105)	(79)	(54)	(97)				
Acme		4,309	10,055	1,467		3.2	3.0	.6
Bart		250	860	1,123		.2	.3	.4
Ceres			146	7,302			(*)	2.8
Club (varieties not reported)	1,600	411		194	.9	.3		.1
Converse				1,040				.4
Defiance	3,300	255		742	1.9	.2		.3
Dicklow	700	83	697	1,103	.4	.1	.2	.4
Dixon				366				.1
Durum (varieties not reported)	42,500	14,526	23,041	13,834	24.0	10.7	6.8	5.3
Federation			757	569			.2	.2
Haynes Bluestem	4,900	33	312		2.8	(*)	.1	
Kanred		3,289	39,746	32,668		2.4	11.7	12.6

TABLE 1.—*Estimates of the acreage and percentage of the total wheat area occupied by each of the important wheat varieties grown in each State in 1919, 1924, 1929, and 1934—Continued*

State and variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Wyoming—Continued.								
Kota.....		803		1,148		0.6		0.4
Kruse.....				44				(*)
Kubanka.....		2,069		919		1.5		.4
Ladoga.....	3,400		4,175		1.9	(*)	1.2	
Marquis.....	61,100	88,868	144,467	85,754	34.5	65.2	42.5	33.0
Odessa.....	100	722	368	477	.1	.5	.1	.2
Peliss.....	500			485	.3			.2
Pentad.....		607	11,857			.4	3.5	4.3
Preston.....	1,300		688		.7		.2	
Red Bobs.....			1,007				.3	
Red Fife.....			1,526		1.2	1.2	.4	
Ruby.....		1,037	216			.8	.1	
Sea Island.....			479	165			.1	.1
Sonora.....		166	461			.1	(*)	
Surprise.....			112		.2		(*)	
Touse.....	400		103		.1		(*)	(*)
Turkey.....	27,800	13,407	95,743	99,057	15.7	9.8	28.2	38.1
Others and not reported.....	25,967	3,566	3,507	396	14.6	2.6	1.0	.1
Total.....			340,323	260,000	99.3	99.8	100.0	100.0

TABLE 2.—*Summary of percentage of the three most widely grown varieties of wheat in each State in 1934*

Division and State	First		Second		Third	
	Variety	Percentage of total	Variety	Percentage of total	Variety	Percentage of total
North Atlantic:						
Maine.....	Marquis	95.8	Red Fife	2.3		
Vermont.....	do	76.1				
Massachusetts.....	do	35.0	Red Wave	18.6	Goldcoin	18.6
Connecticut.....	Dawson	46.4	Leap	35.6	Forward	6.2
New York.....	Goldcoin	48.0	Honor	26.2	do	13.2
New Jersey.....	Leap	64.8	Nittany	13.7	do	10.9
Pennsylvania.....	Nittany	34.3	Leap	26.4	do	16.5
North Central:						
Ohio.....	Trumbull	50.7	Fulhio	15.6	Poole	9.0
Indiana.....	Fultz	22.3	Red May	17.4	do	11.5
Illinois.....	Turkey	27.6	Fultz	25.9	Fulhio	10.0
Michigan.....	Dawson	40.4	Red Rock	23.4	Goldcoin	8.3
Wisconsin.....	Progress	53.7	Marquis	23.7	Turkey	11.1
Minnesota.....	Marquis	44.3	Ceres	21.3	Minturki	9.3
Iowa.....	Turkey	52.5	Iobred	25.5	Kanred	8.3
Missouri.....	Red May	28.0	Fultz	25.7	Fulcaster	9.9
North Dakota.....	Marquis	39.4	Ceres	34.0	Kubanka	6.9
South Dakota.....	do	43.0	do	25.2	Turkey	4.9
Nebraska.....	Turkey	59.5	Nebraska No. 60.	18.9	Kanred	8.7
Kansas.....	do	44.3	Blackhull	33.9	do	10.4
South Atlantic:						
Delaware.....	Nittany	41.1	Fulcaster	24.7	Leap	17.9
Maryland.....	Fulcaster	31.5	Leap	28.5	Mammoth Red	10.3
Virginia.....	do	38.6	do	18.6	V. P. I. 131	16.7
West Virginia.....	do	41.8	do	16.7	Fultz	15.6
North Carolina.....	Leap	28.1	Fulcaster	21.7	Purplestraw	16.5
South Carolina.....	Purplestraw	34.4	Redhart	32.5	Flint	24.1
Georgia.....	do	77.0	Flint	5.9	Redhart	3.9
South Central:						
Kentucky.....	Fultz	41.4	Poole	15.0	Fulcaster	11.5
Tennessee.....	Fulcaster	44.7	Fultz	14.6	Flint	8.2
Alabama.....	Purplestraw	89.9	Flint	7.1		
Mississippi.....	Flint	50.5	Rice	45.4	Purplestraw	4.1
Louisiana.....	Fultz-Mediterranean.	54.8	Purplestraw	45.2		
Arkansas.....	Red May	26.8	Fulcaster	13.6	Mediterranean	10.5
Oklahoma.....	Turkey	44.9	Blackhull	31.3	Kanred	5.0
Texas.....	do	51.6	do	22.9	do	16.1

TABLE 2.—Summary of percentage of the three most widely grown varieties of wheat in each State in 1934—Continued

Division and State	First		Second		Third	
	Variety	Per-centage of total	Variety	Per-centage of total	Variety	Per-centage of total
Western:						
Montana.....	Marquis.....	66.7	Turkey.....	16.1	Supreme.....	5.4
Idaho.....	Turkey.....	23.3	Federation.....	18.2	Dicklow.....	14.8
Wyoming.....	do.....	38.1	Marquis.....	33.0	Kanred.....	12.6
Colorado.....	do.....	53.5	Kanred.....	14.4	Marquis.....	12.7
New Mexico.....	do.....	65.4	do.....	19.4	Blackhull.....	7.0
Arizona.....	Baart.....	85.4	Sonora.....	9.0	Marquis.....	1.5
Utah.....	Turkey.....	38.5	Dicklow.....	16.1	Utah Kanred.....	13.1
Nevada.....	Federation.....	31.2	Turkey.....	15.5	Baart.....	13.3
Washington.....	Baart.....	26.0	do.....	20.2	Albit.....	14.6
Oregon.....	Federation.....	27.3	do.....	20.0	Goldcoin.....	10.4
California.....	Baart.....	27.6	White Federa- tion.....	17.1	Bunyip.....	11.4

TABLE 3.—Estimates of the acreage and percentage of the total wheat area occupied by the wheat varieties of the United States for 1919, 1924, 1929, and 1934

[The asterisk in parentheses (*) indicates a variety reported as grown, but an estimate of acreage either was not given or if given was less than 0.01 percent of the total wheat acreage of the United States]

Variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Acme.....		65,457	72,93	106,782		0.13	0.12	0.18
Alaska.....	600	408	1,715		(*)	(*)	(*)	
Albit.....			78,190	392,483			.13	.64
Allen.....	15,200	5,114	1,280	144	0.02	.01	(*)	(*)
Alton.....	8,100	532	19,287	6,464	.01	(*)	.03	.01
Arc.....				8,700				.02
Arizona No. 24.....			312				(*)	
Arnautka.....	14,400	23,075	17,514	18,571	.02	.05	.03	.03
Ashkof.....			1,882	2,058			(*)	(*)
Ashland.....		2,415	8,753	3,758		(*)	.01	.01
Axminster.....			183				(*)	
Baart.....	500,500	485,159	766,547	794,774	.69	.95	1.24	1.30
Bacska.....	900	1,259	2,281	16	(*)	(*)	(*)	(*)
Baldrock.....				25,434				.04
Barnatka.....			4,495				.01	
Beloglina.....		34		27		(*)		(*)
Berkeley Rock.....			17,433	21,780			.03	.04
Big Club.....	21,700	19,823	4,236	36,830	.03	.04	.01	.06
Blackhull.....	(*)	1,519,992	5,959,067	6,617,379	(*)	2.99	9.61	10.86
Bluechaff.....	(*)	1,922	936	466	(*)	(*)	(*)	(*)
Bunyip.....	(*)	29,508	116,435	71,058	(*)	.06	.19	.12
Ceres.....			347,632	4,453,487			.56	7.31
Champlain.....	4,300		527		.01		(*)	
Cherokee.....			2,763	42,575				.01
Cheyenne.....			4,236	7,288		.09	.11	.02
China.....	63,900	57,671	13,663	1,310	.02	.01	.01	(*)
Chimax.....	16,800	6,265	9,018	21,084	.53	.32	.20	.04
Club (varieties not reported).....	383,600	162,079	127,032	18,441	.01		(*)	.03
Converse.....	4,300		2,224	38,636				.06
Cooperatorka.....			3,155	367	.01	.05	.01	(*)
Coppei.....	4,800	23,754		6,171				.01
Currawa.....			430,596	480,478	.88	.51	.69	.79
Currell.....	645,000	259,290		140	(*)			(*)
Dale.....	2,200							
Dawson.....	125,500	61,668	42,578	356,108	.17	.12	.07	.58
Defiance.....	194,400	36,224	40,926	35,046	.27	.07	.07	.06
Democrat.....	6,100	597	1,918	66	.01	(*)	(*)	(*)
Denton.....			16,270	48,596			.03	.08
Dicklow.....	164,600	115,947	253,421	176,022	.23	.23	.41	.29
Diehl-Mediterranean.....	117,100	59,095	36,053	49,876	.16	.12	.06	.08
Dixon.....	300		12,926	35,440	(*)		.02	.06
Durum (varieties not reported).....	4,210,300	3,081,578	3,495,314	1,167,833	5.78	6.06	5.64	1.92
Eagle Chief.....			6,881	20,214			.01	.03
Early Blackhull.....			248	78,013			(*)	.13
Eaton.....	9,500	6,945	9,996	2,877	.01	.01	.02	.01

TABLE 3.—*Estimates of the acreage and percentage of the total wheat area occupied by the wheat varieties of the United States for 1919, 1924, 1929, and 1934—Con.*

Variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Escondido			2,125	15,439			(*)	0.03
Federation		32,696	752,867	697,421		0.06	1.21	1.14
Flint	97,200	100,377	65,233	178,020	0.13	.20	.11	.29
Foisy	41,300	11,155	1,431		.06	.02	(*)	
Forward		4,987	155,172	258,329		.01	.25	.42
Fulcaster	2,576,000	1,816,534	1,400,057	1,395,122	3.53	3.57	2.26	2.29
Fulhio		82,201	254,086	533,838		.16	.41	.88
Fultz	4,801,100	1,786,971	1,446,830	1,870,380	6.59	3.51	2.33	3.07
Fultz-Mediterranean	305,900	86,878	41,037	37,804	.42	.17	.07	.06
Galgals	34,500	14,842	11,516	10,894	.05	.03	.02	.02
Garnet			8,958	11,038			.01	.02
Gasta				952				(*)
Genesee Giant	1,600	1,540	449	791	(*)	(*)	(*)	(*)
Ghirka	800		930		(*)		(*)	
Gipsy	122,500	82,223	25,931	40,704	.17	.16	.04	.07
Gladden	7,700	100,843	41,735	34,896	.01	.20	.07	.06
Gleason				2,053				(*)
Goens	132,600	100,688	24,930	66,743	.18	.20	.04	.11
Goldcoin	949,300	670,852	892,371	437,734	1.30	1.32	1.44	.72
Gold Drop	2,700	1,104	134	3,425	(*)	(*)	(*)	.01
Golden				181				(*)
Golden Cross	1,300		111		(*)		(*)	
Grandprize	36,100	13,389	1,036	2,504	.05	.03	(*)	(*)
Greeson	5,100	11,173	9,912	14,296	.01	.02	.02	.02
Gypsum	9,600	1,520		1,871	.01	(*)		(*)
Hard Federation		12,793	61,781	9,110		.03	.10	.02
Hard Federation 31				4,276				.01
Harvest Queen	1,007,600	403,495	359,857	379,897	1.38	.79	.58	.62
Haynes Bluestem	1,557,800	133,031	72,943	22,322	2.14	.26	.12	.04
Honor		4,718	17,368	68,897		.01	.03	.11
Hood				1,970				(*)
Hope			3,405	16,250			.01	.03
Humpback	31,600	956	665	139		(*)	(*)	(*)
Huston	22,400	25,081	6,626	12,643	.03	.05	.01	.02
Hybrid 63	33,200	11,266		5,449	.05	.02		.01
Hybrid 123	28,100	51,808	26,053	3,037	.04	.10	.04	.01
Hybrid 128	289,100	416,475	356,910	142,605	.40	.82	.58	.23
Hybrid 143	49,500	12,918	10,198	6,159	.07	.03	.02	.01
Illini Chief	21,300	2,940	2,551	566	.03	.01	(*)	(*)
Illinois No. 1				1,116				(*)
Illinois No. 2				968				(*)
Ired		9,205	24,190	7,530		.02	.04	.01
Imbler				795				(*)
Imperial Amber		400	217			(*)	(*)	
Iobred		557	107,892	112,874		(*)	.17	.19
Ioturk			4,149	9,246			.01	.02
Iowa No. 404	14,100	4,942	1,996		.02	.01	(*)	
Iowin			1,008	8,629			(*)	.01
Java	19,000	9,106	17,479	20,881	.03	.02	.03	.03
Jenkin	66,500	112,115	92,199	47,930	.09	.22	.15	.08
Jones Fife	476,100	209,222	167,416	117,796	.65	.41	.27	.19
Kahla	19,500	45,579	28,250	1,668	.03	.09	.05	(*)
Kanred	100,300	4,314,962	3,469,100	2,928,980	.14	8.48	5.60	4.81
Karmont		1,272	85,935	90,448		(*)	.14	.15
Kawvale				41,487				.07
Kinney	23,400	8,353	9,865	7,729	.03	.02	.02	.01
Kitchener		5,451	4,148	3,721		.01	.01	.01
Kofod	7,900	5,713	2,709	1,071	.01	.01	(*)	(*)
Komar				12,412				0.2
Kota		471,313	250,985	59,890		.93	.40	.10
Kruse				2,068				(*)
Kubanka	52,300	479,046	724,864	687,379	.07	.94	1.17	1.13
Ladoga	20,800	2,593	9,533	450	.03	.01	.02	(*)
Leap	523,100	511,774	673,613	708,903	.72	1.01	1.09	1.16
Little Club	106,100	22,152	17,517	27,688	.15	.04	.03	.05
Lofthouse	6,500	635	5,639	2,930	.01	(*)	.01	.01
Longberry No. 1	4,600		1,193		.01		(*)	
Lynn	9,300			2,312	.01			(*)
Mackey				3,907				.01
Major				317				(*)
Mammoth Red	4,700	6,412	54,385	43,713	.01	.01	.09	.07
Marquillo			10,150	135,185			.02	.22
Marquis	11,734,000	9,605,870	11,786,590	8,510,141	16.10	18.89	19.02	13.96
Martin	37,800	6,373	1,564	3,826	.05	.01	(*)	.01
Marvel			3,083	9,212			.01	.02
Mayview			322	1,816			(*)	(*)
Mealy	65,500	7,833	7,964	2,566	.09	.02	.01	(*)
Mediterranean	2,770,100	599,967	542,793	519,261	3.80	1.18	.88	.85

TABLE 3.—Estimates of the acreage and percentage of the total wheat area occupied by the wheat varieties of the United States for 1919, 1924, 1929, and 1934—Con.

Variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Michikof		52,550	139,107	91,923		0.10	0.22	0.15
Mindum		11,953	322,151	446,399		.02	.52	.73
Minhardi			886	2,105			(*)	(*)
Minturki		36,970	89,028	165,639		.07	.14	.27
Monad		84,203	94,682	17,977		.17	.15	.03
Mondak				(*)				(*)
Montana King			38,712	8,239			.06	.01
Montana No. 36	100	22,852	31,028	18,674	(*)	.04	.05	.03
Mosida			12,392	16,118			.02	.03
Nabob			257	1,771			(*)	(*)
Nebraska No. 6		8,769	9,444	1,280		.02	.02	(*)
Nebraska No. 60		13,552	345,163	649,839		.03	.56	1.07
Newturk			12,390	21,790			.02	.04
New Zealand		4,630	881	1,843		.01	(*)	(*)
Nigger	280,600	197,380	126,484	151,907	0.38	.39	.20	.25
Niftany		258,532	398,312	409,223		.51	.64	.67
Nodak		(*)	36,910	17,635		(*)	.06	.03
Oakley	1,500	1,763	485		(*)	(*)	(*)	
Odessa	54,300	22,395	5,160	4,941	.07	.04	.01	.01
Onas			17,330	28,398			.03	.05
Oregon Zimmerman			3,474	14,278			.01	.02
Oro			774	3,077			(*)	.01
Pacific Bluestem	1,363,400	371,434	363,955	167,582	1.87	.73	.59	.27
Pallade	41,500	2,236	1,568		.06	(*)	(*)	
Peliss	1,900	5,055	6,168	26,010	(*)	.01	.01	.04
Penquite	12,200	13,764	4,049		.02	.03	.01	
Pentad	49,300	341,147	1,004,228	309,822	.07	.67	1.62	.51
Pilcrav	(*)		13,408	24,534	(*)		.02	.04
Poole	2,453,400	1,050,023	600,817	672,564	3.37	2.06	.97	1.10
Portage	4,500	57,320	13,067	23,387	.01	.11	.02	.04
Poso				1,732			(*)	
Power	9,100	53,014	20,160	17,432	.01	.10	.03	.03
Powerclub		4,516	2,113	3,525		.01	(*)	.01
Prelude	2,700	7,371	2,167	1,360	(*)	.01	(*)	(*)
Preston	2,233,200	392,176	287,861	127,059	3.06	.77	.46	.21
Progress		397	33,193	92,546		(*)	.05	.15
Prohibition	24,600	15,522	5,928	6,916	.03	.03	.01	.01
Propo	19,400	8,983	18,483	2,182	.03	.02	.03	(*)
Prosperity	46,000	1,499	4,275	5,948	.06	(*)	.01	.01
Purdue No. 1			275				(*)	(*)
Purkof			199,816	300,357			.32	.49
Purplestraw	273,810	116,340	150,014	306,028	.38	.23	.24	.50
Pusa No. 4			589	4			(*)	(*)
Quality		11,876	131,842	120,733		.02	.21	.20
Ramona			457				(*)	(*)
Red Bobs		14,588	16,608	8,206		.03	.03	.01
Redchaff	40,000	2,629	8,018	4,268	.05	.01	.01	.01
Red Clawson	80,900	21,925	10,823	15,557	.11	.04	.02	.03
Red Fife	749,600	175,008	28,101	19,509	1.03	.34	.05	.03
Redhart			2,310	112,392			(*)	.19
Redhull			7,255	83,049			.01	.14
Red May	1,165,900	399,915	799,161	977,421	1.60	.79	1.29	1.60
Red Rock	216,000	342,671	261,246	219,706	.30	.67	.42	.36
Red Russian	154,900	52,287	57,653	24,735	.21	.10	.09	.04
Red Wave	1,115,700	435,198	255,737	307,259	1.53	.86	.41	.50
Regal			513				(*)	
Reliance			311	1,722			(*)	(*)
Relief			77				(*)	(*)
Renfrew			5,713	638			.01	(*)
Reward			6,520	230,952			.01	.38
Rice	30,900	54,560	5,693	13,017	.04	.11	.01	.02
Ridit		(*)	166,411	159,402		(*)	.27	.26
Rink	14,400	19,105	30,053	7,685	.02	.04	.05	.01
Rio				871			(*)	(*)
Ruby		329,958	186,476	77,240		.65	.30	.13
Rudy	407,900	250,801	191,078	211,991	.56	.49	.31	.35
Ruddy			597				(*)	
Rupert	14,300	13,121	6,102	1,099	.02	.03	.01	(*)
Russian		18,808	17,054	5,159		.04	.03	.01
Russian Red	172,100	50,474	60,806	30,710	.24	.10	.10	.05
Sea Island	12,600	13,203	8,383	3,565	.02	.03	.01	.01
Servier	900	2,226	2,872	179	(*)	(*)	(*)	(*)
Shepherd			3,399	538			.01	(*)
Sherman			1,266	5,159			(*)	.01
Sibley No. 81				22,737				.04
Silvercoin	1,600	1,389	5,648	1,258	(*)	(*)	.01	(*)
Silversheaf	34,900		6,050	2,950	.05		.01	.01
Sol (Sun)	800	753	1,067	490	(*)	(*)	(*)	(*)
Sonora	266,100	88,017	91,852	50,681	.37	.17	.15	.08

TABLE 3.—*Estimates of the acreage and percentage of the total wheat area occupied by the wheat varieties of the United States for 1919, 1924, 1929, and 1934—Con.*

Variety	Acreage				Percentage			
	1919	1924	1929	1934	1919	1924	1929	1934
Squareheads Master				850				(*)
Stanley	(*)		424		(*)		(*)	
Sturgeon				28				(*)
Superhard			99,635	154,388			0.16	0.25
Supreme			299,840	188,401			.48	.31
Surprise	60,900	16,556	24,071	5,615	0.08	0.03	.04	.01
Tenmarq				177,746				.29
Thatcher				1,823				(*)
Touse	22,800	8,560	4,977	2,558	.03	.02	.01	(*)
Triplet		100,627	168,018	123,150		.20	.27	.20
Trumbull	1,900	593,427	902,699	1,135,641	(*)	1.17	1.46	1.86
Turkey	21,598,200	14,332,147	15,925,677	15,114,395	29.63	28.18	25.69	24.80
Ukrainka				991				(*)
Utac			448	610			(*)	(*)
Utah Kanred			21,084	26,140			.03	.04
Valley	5,400	4,316	754	7,703	.01	.01	(*)	.01
Valprize				4,816				.01
V. P. I. 112			32,490	12,550			.05	.02
V. P. I. 131			80,135	106,292			.13	.18
Walker	24,300	1,633	1,143	2,886	.03	(*)	(*)	.01
Wheedling	10,900	3,372	851	4,058	.01	.01	(*)	.01
White Federation		1,311	38,401	105,267		(*)	.06	.17
Whiteman			3,532	34,100			.01	.06
White Mediterranean				1,554				(*)
White Odessa			446	382			(*)	(*)
White Winter	52,700	29,593	26,710	16,377	.07	.06	.04	.03
Wilhelmina			23,004	37,545			.04	.06
Windsor	100		1,070	995	(*)		(*)	(*)
Wisconsin Pedigree No. 2	6,900	3,123	3,948	1,995	.01	.01	.01	(*)
Wyandotte	700			298	(*)			(*)
Zimmerman	12,600	196		651	.02	(*)		(*)
Others and not reported	4,982,922	1,806,509	1,459,102	1,225,474	6.83	3.60	2.35	2.01
Total			61,997,304	60,953,135	99.98	99.94	100.00	100.00

TABLE 4.—*Varieties of wheat grown to the extent of more than a million acres, listed in order of acreage in 1919, 1924, 1929, and 1934*

Rank	1919	1924	1929	1934
1	Turkey	Turkey	Turkey	Turkey
2	Marquis	Marquis	Marquis	Marquis.
3	Fultz	Kanred	Blackhull	Blackhull.
4	Mediterranean	Fulcaster	Kanred	Ceres.
5	Fulcaster	Fultz	Fultz	Kanred.
6	Poole	Blackhull	Fulcaster	Fultz.
7	Preston	Poole	Pentad	Fulcaster.
8	Haynes Bluestem			Trumbull.
9	Pacific Bluestem			
10	Red May			
11	Red Wave			
12	Harvest Queen			

Of the 213 varieties reported in 1934, 34 occupied from 50,000 to 250,000 acres, and 21 occupied from 250,000 to 1,000,000 acres. This indicates that a large number of varieties are grown on very limited acreages. This is due to several possible reasons. In some cases a variety may be well adapted to only a very small area. New varieties may fail to replace old varieties entirely because of lack of adaptability or lack of widespread knowledge of the merits of the new variety. Another reason may be the desire of the growers to try something new. The gradual increase in the number of varieties reported does not indicate much progress toward the standardization of varieties.

New varieties are being introduced more rapidly than the old ones drop out. It would seem desirable to have a smaller number of more widely adapted varieties. The three leading varieties in each State in 1934 are listed in table 2. Turkey is the leading variety in 11 States, second in 4, and third in 2. Marquis ranks first in seven States, second in two, and third in two. Fulcaster ranks first in four States, second in three, and third in two, while Fultz is first in two, second in three, and third in one. Baart, a white wheat, ranks first in three States and Federation, another white variety, is first in two. Other varieties that have the largest acreage in more than one State are Purplestraw, Nittany, Red May, and Dawson.

The data in table 3 show that Turkey, Marquis, and Blackhull are the varieties most extensively grown, and together they comprise nearly 50 percent of the total wheat acreage of the United States. The only variety approaching these three in importance is Ceres, the acreage of which is 7.31 percent of the total.

Changes in the distribution of varieties are constantly taking place. During the 5-year period 1929-34 the greatest increases in percentage of the wheat acreage occupied were shown by the following varieties: Ceres, 0.56 to 7.31; Blackhull, 9.61 to 10.86; Fultz, 2.33 to 3.07; Nebraska No. 60, 0.56 to 1.07; Albit, 0.13 to 0.64; Dawson, 0.07 to 0.58; and Fulhio, 0.41 to 0.88. The greatest decreases were: Marquis, 19.02 to 13.96 percent; durum (varieties not reported), 5.64 to 1.92; Pentad, 1.62 to 0.51; Kanred, 5.60 to 4.81; Turkey, 25.69 to 24.80; and Goldcoin, 1.44 to 0.72 percent.

In table 4 the varieties grown on more than a million acres are listed in order of importance. Turkey, Marquis, and Blackhull are the three ranking varieties. Ceres ranks fourth and Pentad no longer appears in the list. Trumbull ranks eighth, appearing in the list for the first time. The eight varieties listed occupy 68.96 percent of the total wheat acreage of the United States.

CLASSES OF WHEAT

According to the official grain standards of the United States, wheat is now separated into six commercial classes: (1) Hard red spring, (2) durum, (3) red durum, (4) hard red winter, (5) soft red winter, and (6) white. Each of the classes has two or three subclasses, and each subclass has five numerical grades. All varieties, except White Polish and poulard wheats, are included in one or another of the six classes. In order to show the relative importance and distribution of the different classes the acreages of the varieties making up each class were totaled. In this report the durum and red durum acreages are reported together, as only one variety and a small acreage of red durum are grown. The acreage for 1934 of each class and its percentage of the entire wheat acreage for each crop-reporting district and each State, arranged by geographical divisions, are shown in table 5 and summarized in table 6. Figure 2 shows the location and number of each crop-reporting district.

In table 5 the acreages of "others and not reported" are distributed among the classes in a proportion determined by the acreages of varieties reported; thus the total wheat acreage of each State was accounted for. This distribution was made by crop-reporting districts.

Hard red spring wheat as a class is grown in all but the South Atlantic division, but principally in the North Central States. In 1934 it was reported from 29 States and was the leading class in Wisconsin, Minnesota, North Dakota, South Dakota, and Montana.

Durum wheat is grown in the same general divisions and in most of the States where hard red spring wheat is grown. It is not a leading class of wheat in any State, occupying 21.7 percent of the acreage in North Dakota, 19 percent of that in South Dakota, and 8.3 percent of that in Minnesota. In addition to the above States acreages of more than 25,000 acres were reported from Nebraska, Texas, Montana, and Wyoming, in the order named. In all, durum wheat was grown in 16 States in 1934.

Hard red winter wheat was reported as being grown in all divisions, although very sparingly in the North Atlantic and South Atlantic States. It is grown principally in the South Central and North



FIGURE 2.—Crop-reporting districts in 1934 within the States of the United States.

Central States and is the leading class of wheat in Iowa, Nebraska, Kansas, Oklahoma, Texas, New Mexico, Wyoming, Colorado, and Utah. It was reported from 29 States in 1934, although the greatest acreages occur in Kansas, Texas, Oklahoma, and Nebraska. Its total acreage is nearly twice that of any other class of wheat.

Soft red wheat is also grown in all divisions. It is the leading class of wheat in Rhode Island, New Jersey, Pennsylvania, Delaware, Ohio, Indiana, Illinois, Missouri, Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Kentucky, Tennessee, Alabama, Louisiana, Arkansas, and Mississippi. In many of the Eastern States it is practically the only class of wheat grown. The largest acreages were reported from Ohio, Indiana, Missouri, Illinois, and Pennsylvania. A total of 38 States reported soft red winter wheat in 1934.

White wheat is grown in all divisions, but chiefly in the far Western States. A very small acreage was reported from the South Central States. It is the leading class of wheat in Connecticut, New York, Michigan, Idaho, Arizona, Nevada, Washington, Oregon, and California. The largest acreages are in Washington, California,

Oregon, and Idaho in the far West, Michigan in the North Central States, and New York in the North Atlantic States.

The estimated acreage and percentage of the total wheat area occupied by each class in 1919, 1924, 1929, and 1934 are shown in table 6. These acreages were determined by totaling the estimated acreages of the varieties in each class.

Table 6 shows that the relative acreage of hard red spring wheat gradually decreased from 1919 to 1929 but slightly increased in 1934. The relative acreage of durum increased from 1919 to 1929, but decreased from 9.4 percent in 1929 to 4.6 in 1934. No doubt part of this decrease may be accounted for by the increase in hard red spring wheat. However, the total percentage of hard red spring and durum decreased from 31.4 in 1929 to 27.8 in 1934.

The relative percentage of hard red winter wheat has gradually increased since 1919. The increase during the last 5-year period was from 43.5 percent to 44.6 percent. The acreage of soft red winter wheat increased from 17.7 percent in 1929 to 20.9 percent in 1934. The percentage is still slightly less than it was in 1924 and considerably less than in 1919.

The white wheats occupied 6.7 percent of the total wheat acreage in 1934, which was slightly less than the percentage in 1929. There has been no marked change in the relative importance of this class. This increase in the acreage of one class and the decrease in the acreage of another class is more a result of the increase and decrease in the acreage of wheat as a whole in the respective areas where these classes are grown than it is of a change in the preference for one class or the other.

TABLE 5.—Estimated acreage and percentage of the total wheat area occupied by the classes of wheat grown in each State in 1934

[The asterisk in parentheses (*) indicates a class reported as grown but occupying less than 0.1 percent of the total wheat acreage of the district or State]

Division, State, and district	Hard red spring		Durum		Hard red winter		Soft red winter		White		Total acreage
	Acreage	Per cent	Acreage	Per cent	Acreage	Per cent	Acreage	Per cent	Acreage	Per cent	
North Atlantic:											
Maine:											
1.....	6,165	100.0									6,165
2.....	224	100.0									224
3.....	47	100.0									47
Total.....	6,436	100.0									6,436
N. Hampshire: 1.	9	100.0									9
Vermont: 1.....	493	100.0									493
Massachusetts: 1.	47	48.4					25	25.8	25	25.8	97
Connecticut: 1.....							92	47.4	102	52.6	194
New York:											
2.....	746	100.0									746
3.....	348	100.0									348
4.....	501	.2					29,772	15.2	165,868	84.6	196,141
5.....	691	2.1					9,992	30.8	21,723	67.1	32,406
6.....	194	6.9					453	16.2	2,149	76.9	2,796
7.....							1,639	16.1	8,570	83.9	10,209
8.....	444	3.4					4,364	33.0	8,596	63.6	13,204
9.....	477	9.8					1,609	32.9	2,796	57.3	4,882
9A.....							696	100.0			696
Total.....	3,401	1.3					48,525	18.6	209,502	80.1	261,428

TABLE 5.—Estimated acreage and percentage of the total wheat area occupied by the classes of wheat grown in each State in 1934—Continued

Division, State, and district	Hard red spring		Durum		Hard red winter		Soft red winter		White		Total acreage
	Acreage	Per-cent	Acreage	Per-cent	Acreage	Per-cent	Acreage	Per-cent	Acreage	Per-cent	
North Atlantic—Con. Rhode Island: 1							54	100.0			54
New Jersey:											
2							29,268	100.0			29,268
5							13,153	100.0			13,153
8							8,962	100.0			8,962
Total							51,383	100.0			51,383
Pennsylvania:											
1					228	0.9	26,357	97.1	549	2.0	27,134
2	166	0.6					28,250	98.9	140	.5	28,556
3							656	100.0			656
4							74,078	99.7	192	.3	74,270
5							203,874	100.0			203,874
6							70,405	100.0			70,405
7	20	(*)					62,034	99.6	218	.4	62,272
8							246,146	100.0			246,146
9							232,627	100.0			232,627
Total	186	(*)			228	(*)	944,427	99.9	1,099	.1	945,940
North Central:											
Ohio:											
1	2,569	.8			2,196	.7	292,786	90.9	24,617	7.6	322,168
2	406	.1					289,274	93.7	19,082	6.2	308,762
3							167,811	100.0			167,811
4					468	.2	279,944	99.8			280,412
5					1,311	.3	415,331	99.0	3,073	.7	419,715
6							91,894	98.7	1,231	1.3	93,125
7					1,719	.8	213,702	99.2			215,421
8					282	.3	94,918	99.7			95,200
9					104	.1	90,932	99.6	225	.3	91,261
Total	2,975	.2			6,080	.3	1,936,592	97.1	48,228	2.4	1,993,875
Indiana:											
1	552	.4			36,493	27.7	94,589	71.9			131,634
2					11,683	5.2	212,699	94.8			224,382
3	222	.1			14,358	7.8	168,989	92.1			183,569
4					11,387	5.4	200,625	94.6			212,012
5					23,748	5.6	403,245	94.4			426,993
6					6,012	4.3	135,033	95.7			141,045
7					652	.2	332,480	99.8			333,132
8					2,539	2.6	94,452	97.4			96,991
9					1,216	1.3	93,992	98.7			95,208
Total	774	(*)			108,088	5.9	1,736,104	94.1			1,844,966
Illinois:											
1	4,599	9.9			37,714	81.1	4,180	9.0			46,493
3	10,710	66.2	6	(*)	5,464	33.8					16,180
4	21	(*)			75,172	40.3	111,211	59.7			186,404
4A					204,462	36.1	362,219	63.9			566,681
5	150	.1			210,596	76.7	63,713	23.2			274,459
6	1,672	2.2			54,950	70.3	21,501	27.5			78,123
6A					109,931	40.1	164,413	59.9			274,344
7					888	.2	446,544	99.8			447,432
9					4,945	2.6	185,203	97.4			190,148
Total	17,152	.8	6	(*)	704,122	33.9	1,358,984	65.3			2,080,264
Michigan:											
1	2,508	60.0					1,521	36.4	150	3.6	4,179
2	152	1.0					11,227	73.8	3,833	25.2	15,212
3					1,351	13.9	6,693	69.0	1,653	17.1	9,697
4							7,551	41.6	10,581	58.4	18,132
5					283	.7	11,103	25.9	31,514	73.4	42,900
6							43,353	39.1	67,437	60.9	110,790
7					315	.2	105,483	69.3	46,344	30.5	152,142
8					1,551	.5	127,745	43.4	165,374	56.1	294,670
9					2,825	1.4	79,542	38.3	125,123	60.3	207,490
Total	2,660	.3			6,325	.7	394,218	46.1	452,009	52.9	855,212

TABLE 5.—Estimated acreage and percentage of the total wheat area occupied by the classes of wheat grown in each State in 1934—Continued

Division, State, and district	Hard red spring		Durum		Hard red winter		Soft red winter		White		Total acreage
	Acreage	Per cent	Acreage	Per cent	Acreage	Per cent	Acreage	Per cent	Acreage	Per cent	
North Central—Con.											
Wisconsin:											
1	5,273	78.0	384	5.7	1,100	16.3					6,757
2	2,517	84.7			379	12.8			74	2.5	2,970
3	3,784	70.4	216	4.0	606	11.3	601	11.2	165	3.1	5,372
4	21,338	76.6	613	2.2	5,478	19.7	293	1.0	126	.5	27,848
5	5,827	92.3	208	3.3	279	4.4					6,314
6	27,456	89.5	292	.9	2,938	9.6					30,686
7	5,882	56.7	618	6.0	3,805	36.6	78	.7			10,383
8	15,665	85.9	72	.4	2,321	12.7	171	1.0			18,229
9	15,107	91.9	100	.6	1,234	7.5					16,441
Total	102,849	82.3	2,503	2.0	18,140	14.5	1,143	.9	365	.3	125,000
Minnesota:											
1	396,741	83.5	73,960	15.5	2,174	.5			2,343	.5	475,218
2	4,022	85.0	324	6.8	388	8.2					4,734
3	837	90.7	27	2.9	59	6.4					923
4	458,622	91.9	37,787	7.6	1,114	.2			1,364	.3	498,887
5	204,595	81.1	11,052	4.4	32,748	13.0			3,706	1.5	252,101
6	25,263	83.4	500	1.6	3,016	10.0			1,513	5.0	30,292
7	51,218	78.8	6,508	10.0	6,282	9.7			971	1.5	64,979
8	120,513	56.2	3,878	1.8	86,024	40.1	184	.1	3,823	1.8	124,422
9	64,909	63.4	2,282	2.2	34,775	33.9	478	.5			102,444
Total	1,326,720	80.7	136,318	8.3	166,580	10.1	662	.1	13,720	.8	1,644,000
Iowa:											
1	3,384	39.4			5,048	58.9	143	1.7			8,575
2	2,720	68.3	130	3.3	1,024	25.7			108	2.7	3,982
3	3,078	49.3	44	.7	3,128	50.0					6,250
4	8,391	10.1	434	.5	73,080	87.6			1,482	1.8	83,387
5	2,660	8.1	763	2.3	29,618	89.6					33,041
6	1,086	3.9			26,902	95.1	294	1.0			28,282
7	894	1.2	435	.6	73,349	98.2					74,678
8	606	1.1	560	1.0	53,161	97.9					54,327
9	383	.7			55,236	97.8	859	1.5			56,478
Total	23,202	6.6	2,366	.7	320,546	91.8	1,296	.4	1,590	.5	349,000
Missouri:											
1					54,860	34.1	105,811	65.9			160,671
2					13,551	11.8	101,428	88.2			114,979
3					5,127	6.7	71,771	93.3			76,898
4					5,681	2.5	221,173	97.5			226,854
5					3,509	1.1	325,028	98.9			328,537
6					4,822	1.6	300,378	98.4			305,200
7					1,286	.6	210,853	99.4			212,139
8					939	1.1	83,693	98.9			84,632
9					6,397	4.8	126,703	95.2			133,100
Total					96,172	5.9	1,546,838	94.1			1,643,010
North Dakota:											
1	1,170,603	91.5	107,534	8.4					730	.1	1,278,867
2	772,183	68.4	356,340	3.1					251	(*)	1,128,774
3	621,504	49.9	622,367	50.0					1,012	.1	1,244,883
4	831,291	91.1	78,330	8.6	223	(*)			3,204	.3	913,048
5	673,200	66.1	344,205	33.8	1,131	.1			293	(*)	1,018,829
6	585,259	87.3	84,806	12.7					269	(*)	670,334
7	796,974	95.5	25,074	3.0	10,491	1.3			2,049	.2	834,588
8	737,451	91.4	54,775	6.8	8,795	1.1			5,747	.7	806,768
9	629,735	73.1	230,439	26.8					735	.1	860,909
Total	6,818,200	77.9	1,903,870	21.7	20,640	.2			14,290	.2	8,757,000
South Dakota:											
1	341,402	87.6	21,421	5.5	11,983	3.1			14,821	3.8	389,627
2	947,394	81.0	201,782	17.3	17,994	1.5			1,706	.2	1,168,876
3	262,789	56.9	197,575	42.8	1,194	.3					461,558
4	137,109	82.8	8,637	5.2	18,583	11.2			1,272	.8	165,601
5	346,308	78.5	62,909	14.3	9,893	2.2			21,806	5.0	440,916
6	78,656	59.1	42,054	31.6	871	.6			11,529	8.7	133,110
7	83,072	65.3	5,522	4.3	38,651	30.4			50	(*)	127,295
8	66,292	32.9	69,539	34.5	64,603	32.1			1,090	.5	201,524
9	109,208	62.6	11,553	6.6	22,119	12.7			31,613	18.1	174,493
Total	2,372,230	72.7	620,992	19.0	185,891	5.7			83,887	2.6	3,263,000

TABLE 5.—Estimated acreage and percentage of the total wheat area occupied by the classes of wheat grown in each State in 1934—Continued

Division, State, and district	Hard red spring		Durum		Hard red winter		Soft red winter		White		Total acreage
	Acreage	Per-cent	Acreage	Per-cent	Acreage	Per-cent	Acreage	Per-cent	Acreage	Per-cent	
North Central—Con.											
Nebraska:											
1.....	207,592	26.8	29,207	3.8	536,795	69.4					773,594
2.....	5,320	29.5	1,811	10.1	10,866	60.4					17,997
3.....	3,923	10.6	18	(*)	33,163	89.4					37,104
5.....	2,919	1.5	151	.1	195,555	98.4					198,625
6.....	1,039	.2	259	.1	571,216	98.6	6,599	1.1			579,113
7.....	27,288	4.5	3,556	.6	567,230	94.4	2,949	.5			601,023
8.....	97	(*)	73	(*)	451,089	100.0					451,259
9.....	429	.1			646,311	96.1	25,547	3.8			672,287
Total.....	948,607	7.5	35,075	1.0	3,012,225	90.4	35,095	1.1			3,331,002
Kansas:											
1.....	29,229	2.3	1,018	.1	1,220,753	97.6					1,251,000
2.....					1,237,854	96.2	49,146	3.8			1,287,000
3.....					249,086	68.4	114,914	31.6			364,000
4.....	1,557	.1	3,457	.3	1,366,986	99.6					1,372,000
5.....					2,089,921	98.0	42,079	2.0			2,132,000
6.....					192,017	54.5	159,983	45.5			352,000
7.....					2,954,012	100.0	988	(*)			2,955,000
8.....					2,730,012	98.7	35,988	1.3			2,766,000
9.....					206,374	39.3	318,626	60.7			525,000
Total.....	30,786	.2	4,475	(*)	12,247,015	94.2	721,724	5.6			13,004,000
South Atlantic:											
Delaware:											
2.....							29,696	100.0			29,696
5.....							36,259	59.8	81	0.2	36,340
8.....							14,205	100.0			14,205
Total.....							80,160	99.9	81	.1	80,241
Maryland:											
1.....							5,563	100.0			5,563
2.....							363,073	100.0			363,073
8.....							20,795	100.0			20,795
9.....							78,632	100.0			78,632
Total.....							408,063	100.0			408,063
Virginia:											
2.....							170,175	100.0			170,175
4.....							81,034	100.0			81,034
5.....							120,169	100.0			120,169
6.....							35,209	100.0			35,209
7.....							98,716	100.0			98,716
8.....							79,254	100.0			79,254
9.....							20,562	100.0			20,562
Total.....							605,119	100.0			605,119
West Virginia:											
1.....					23	.2	11,076	99.8			11,099
2.....							14,193	100.0			14,193
3.....							58,271	100.0			58,271
4.....					35	.2	21,606	99.8			21,641
5.....							8,662	100.0			8,662
6.....							24,653	100.0			24,653
8.....							6,166	100.0			6,166
Total.....					58	(*)	144,627	100.0			144,685
North Carolina:											
1.....							43,787	96.6	1,533	3.4	45,320
2.....							96,110	96.0	4,029	4.0	100,139
3.....							5,831	100.0			5,831
4.....							52,585	100.0			52,585
5.....							143,456	94.8	7,840	5.2	151,296
6.....							1,269	100.0			1,269
8.....							126,640	99.0	1,302	1.0	127,942
9.....							11,387	100.0			11,387
Total.....							481,065	97.0	14,704	3.0	495,789

TABLE 5.—Estimated acreage and percentage of the total wheat area occupied by the classes of wheat grown in each State in 1934—Continued

Division, State, and district	Hard red spring		Durum		Hard red winter		Soft red winter		White		Total acreage
	Acreage	Per cent	Acreage	Per cent	Acreage	Per cent	Acreage	Per cent	Acreage	Per cent	
South Atlantic—Con. South Carolina:											
1.....							67,782	100.0			67,782
2.....							15,028	100.0			15,028
3.....							11,028	100.0			11,028
4.....							37,067	100.0			37,067
5.....							23,547	100.0			23,547
8.....							1,778	100.0			1,778
Total.....							156,230	100.0			156,230
Georgia:											
1.....							6,578	100.0			6,578
2.....							41,717	100.0			41,717
3.....							40,367	100.0			40,367
4.....							29,744	100.0			29,744
5.....							30,992	100.0			30,992
6.....							11,696	100.0			11,696
7.....							3,911	100.0			3,911
8.....							2,615	100.0			2,615
9.....							189	100.0			189
Total.....							167,809	100.0			167,809
South Central: Kentucky:											
1.....							32,831	100.0			32,831
2.....							108,313	100.0			108,313
3.....	1,173	1.2			1,774	1.8	93,340	97.0			96,287
4.....							24,517	99.8	44	0.2	24,561
5.....					2,964	2.5	117,229	97.5			120,193
6.....					87	.4	20,631	99.6			20,718
Total.....	1,173	.3			4,825	1.2	396,861	98.5	44	(*)	402,903
Tennessee:											
1.....							9,742	100.0			9,742
2.....							5,152	100.0			5,152
3.....							46,630	100.0			46,630
4.....							148,162	100.0			148,162
5.....							29,874	100.0			29,874
6.....							178,668	100.0			178,668
Total.....							418,228	100.0			418,228
Alabama:											
1.....							80	100.0			80
2.....							3,469	100.0			3,469
2A.....							672	100.0			672
3.....							1,652	100.0			1,652
4.....							10	100.0			10
5.....							43	100.0			43
6.....							3,061	100.0			3,061
Total.....							8,987	100.0			8,987
Louisiana:											
1.....							10	100.0			10
3.....							1	100.0			1
6.....							62	100.0			62
Total.....							73	100.0			73
Arkansas:											
1.....					5,618	17.4	26,692	82.6			32,310
2.....					32	.4	8,327	99.6			8,359
3.....					113	.8	14,149	99.2			14,262
4.....							2,093	100.0			2,093
5.....							982	100.0			982
6.....							1,196	100.0			1,196
7.....							880	100.0			880
8.....							11	100.0			11
9.....							12	100.0			12
Total.....					5,763	9.6	54,342	90.4			60,105

TABLE 5.—Estimated acreage and percentage of the total wheat area occupied by the classes of wheat grown in each State in 1934—Continued

Division, State, and district	Hard red spring		Durum		Hard red winter		Soft red winter		White		Total acreage
	Acreage	Per-cent	Acreage	Per-cent	Acreage	Per-cent	Acreage	Per-cent	Acreage	Per-cent	
South Central—Con. Mississippi:											
1							229	100.0			229
3							6	100.0			6
4							549	100.0			549
5							27	100.0			27
Total							811	100.0			811
Oklahoma:											
1					723,334	100.0					723,334
2					1,110,067	81.1	259,150	18.9			1,369,217
3					8,651	10.6	72,692	89.4			81,343
4					443,403	99.3	3,088	.7			446,491
5					252,721	63.1	147,525	36.9			400,246
6					5,482	52.9	4,879	47.1			10,361
7					472,202	95.4	22,930	4.6			495,132
8					9,500	66.6	4,761	33.4			14,261
9							448	100.0			448
Total					3,025,360	85.4	515,473	14.6			3,540,833
Texas:											
1N	4,463	0.1	12,307	0.4	3,402,665	99.3	6,436	.2			3,425,871
1S			1,013	1.0	95,599	96.0	3,038	3.0			99,650
2			1,427	.8	156,408	87.7	17,752	9.9	2,892	1.6	178,479
3			418	.3	73,185	56.3	56,345	43.4			129,948
4	337	.1	8,158	3.8	12,627	5.9	192,796	89.5	1,574	.7	215,492
7	544	1.7	4,757	14.6	14,357	44.1	12,924	39.6			32,612
8			1,067	21.6	3,321	67.1	560	11.3			4,948
Total	5,344	.1	29,147	.7	3,758,192	92.0	289,851	7.1	4,466	.1	4,087,000
Western:											
Montana:											
1	27,578	31.1			29,442	33.2	14,309	16.1	17,379	19.6	88,708
2	880,597	86.3	3,154	.3	129,023	12.6			7,641	.8	1,020,415
3	1,060,843	97.0	15,859	1.4	17,616	1.6					1,094,318
5	298,561	50.7	263	.1	282,117	47.9	1,121	.2	6,552	1.1	588,614
7	35,042	34.4	769	.7	46,304	45.4	8,215	8.1	11,645	11.4	101,975
8	167,720	50.8	4,504	1.4	155,073	47.0	661	.2	1,837	.6	329,795
9	248,813	83.2	4,099	1.4	44,928	15.0			1,335	.4	299,175
Total	2,719,154	77.2	28,648	.8	704,503	20.0	24,306	.7	46,389	1.3	3,523,000
Idaho:											
1	20,846	7.2			44,373	15.3	22,145	7.6	202,753	69.9	290,117
7	719	.9			4,470	5.3	1,388	1.6	78,112	92.2	84,689
8	2,978	2.7	83	.1	16,378	15.2	1,043	1.0	87,508	81.0	107,990
9	26,833	6.7			203,222	51.1	5,767	1.5	161,799	40.7	397,621
Total	51,376	5.8	83	(*)	268,443	30.5	30,343	3.5	530,172	60.2	880,417
Wyoming:											
1	8,858	92.1			155	1.6	9	.1	593	6.2	9,615
2	47,701	55.8	664	.8	37,174	43.4					85,539
3	274	8.3			198	6.0	468	14.1	2,368	71.6	3,308
4	1,159	55.8	20	1.0	838	40.3			60	2.9	2,077
5	38,004	23.8	27,139	17.0	93,532	58.7	44	(*)	742	.5	159,461
Total	95,996	36.9	27,823	10.7	131,897	50.7	521	.2	3,763	1.5	260,000
Colorado:											
1	4,308	21.6			12,397	62.2	175	.9	3,044	15.3	19,924
2	133,759	28.9	1,907	.4	318,320	68.7	946	.2	8,247	1.8	463,179
6	80,150	10.2	10,343	1.3	681,979	86.5			15,502	2.0	787,974
7	28,643	60.9			8,856	18.8	117	.3	9,400	20.0	47,016
8	10,538	71.3			161	1.1			4,075	27.6	14,774
9	11,338	5.1	521	.2	209,899	94.5			375	.2	222,133
Total	268,736	17.3	12,771	.8	1,231,612	79.2	1,238	.1	40,643	2.6	1,555,000
New Mexico:											
1	6,214	39.6			3,070	19.5			6,420	40.9	15,704
3	8,858	2.5	1,666	.5	336,416	97.0					346,940
7									1,678	100.0	1,678
9					180	26.5			498	73.5	678
Total	15,072	4.1	1,666	.5	339,666	93.0			8,596	2.4	365,000

TABLE 5.—Estimated acreage and percentage of the total wheat area occupied by the classes of wheat grown in each State in 1934—Continued

Division, State, and district	Hard red spring		Durum		Hard red winter		Soft red winter		White		Total acreage
	Acreage	Per cent	Acreage	Per cent	Acreage	Per cent	Acreage	Per cent	Acreage	Per cent	
Western—Contd.											
Arizona:											
2	612	25.4	26	1.1	310	12.9			1,462	60.6	2,410
5									32,644	100.0	32,644
7									2,424	100.0	2,424
9									3,012	100.0	3,012
Total	612	1.5	26	.1	310	.8			39,542	97.6	40,490
Utah:											
1	676	.5			79,753	58.9	3,117	2.3	51,847	38.3	135,393
5	791	1.7			23,925	52.9			20,519	54.4	45,235
6	1,421	10.3			4,679	34.0	50	.4	7,609	55.3	13,759
7	288	5.1			1,261	22.5	32	.6	4,024	71.8	5,605
Total	3,176	1.6			109,618	54.8	3,199	1.6	83,999	42.0	199,992
Nevada:											
1	226	2.3			1,841	18.6			7,845	79.1	9,912
3	41	3.8			61	5.6			985	90.6	1,087
8									1,163	100.0	1,163
Total	267	2.2			1,902	15.6			9,993	82.2	12,162
Washington:											
1	1,779	16.0			235	2.1	5,718	51.5	3,381	30.4	11,113
2	1,366	.9			21,064	14.2	6,761	4.5	119,685	80.4	148,876
3	6,426	4.3			8,597	5.7	9,785	6.5	125,737	83.5	150,545
5	17,573	1.9			303,764	33.1	11,831	1.3	585,487	63.7	918,655
9	5,347	.8			174,596	24.8	94,786	13.4	430,049	61.0	704,778
Total	32,491	1.7			508,256	26.3	128,881	6.6	1,264,339	65.4	1,933,967
Oregon:											
1	25,784	21.0			587	.5	1,756	1.4	94,832	77.1	122,959
2	765	.2			163,807	44.2	1,489	.4	204,472	55.2	370,533
3	354	.1			14,507	5.0	20,317	7.1	252,244	87.8	287,422
7	126	.6			12	.1	1,822	9.5	17,217	89.8	19,177
8	1,536	4.4			5,719	16.4			27,706	79.2	34,961
Total	28,565	3.4			184,632	22.1	25,384	3.1	596,471	71.4	835,052
California:											
1									2,927	100.0	2,927
2					2,310	12.0			16,981	88.0	19,291
3					1,054	10.2			9,266	89.8	10,320
4									107,131	100.0	107,131
5									200,580	100.0	200,580
5A									212,577	100.0	212,577
6									11,558	100.0	11,558
8			234	.5					50,218	99.5	50,452
Total			234	(*)	3,364	.6			611,238	99.4	614,836

TABLE 6.—Estimated acreage and percentage of the total wheat area of the United States occupied by each of the 5 classes of wheat

Class	1919 ¹	1924 ¹	1929 ¹	1934	Total wheat area occupied			
					1919	1924	1929	1934
	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Acres</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>	<i>Per cent</i>
Hard red spring	17,641,987	11,396,140	13,604,817	14,178,689	24.2	22.4	22.0	23.2
Durum ²	4,665,680	4,195,704	5,841,627	2,806,003	6.4	8.2	9.4	4.6
Hard red winter	23,328,247	21,052,848	26,974,903	27,170,453	32.0	41.4	43.5	44.6
Soft red winter	21,943,133	11,216,850	10,973,440	12,718,733	30.1	22.1	17.7	20.9
White	5,321,756	3,000,250	4,600,767	4,079,257	7.3	5.9	7.4	6.7
Total	72,900,773	50,861,792	61,995,554	60,953,135	100.0	100.0	100.0	100.0

¹ Polish and poulard wheats not included.² Durum includes the red durum class.

HARD RED SPRING WHEATS

The hard red spring wheats are grown principally in the north-central part of the United States, their production extending into the prairie Provinces of Canada. Here the winters are too severe for the production of the existing varieties of winter wheat. Varieties of spring wheat are also used in certain parts of Nebraska, Kansas, and even Texas to replace winter wheat that has failed, due to winter-killing, drought, soil blowing, or other causes. Red spring wheat also occupies a limited acreage in the Pacific Northwest.

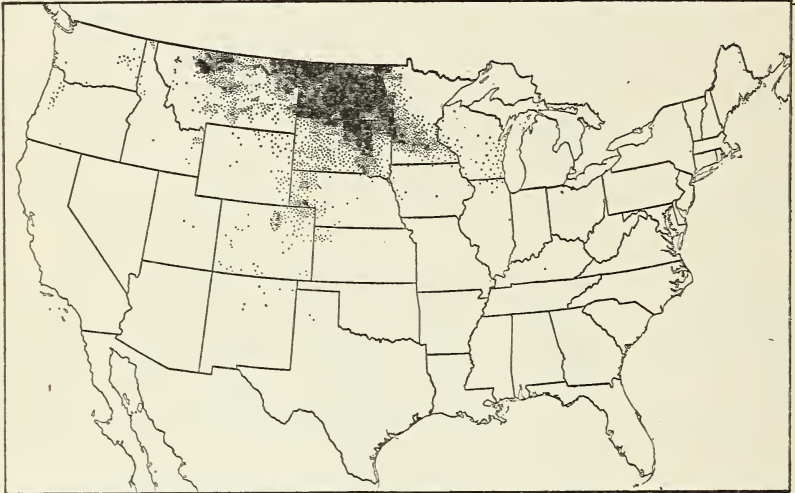


FIGURE 3.—Distribution of hard red spring wheat in 1934. Each dot represents 2,000 acres. Estimated area, 14,178,689 acres.

The distribution of the acreage of hard red spring wheat in 1934 is shown in figure 3.

In 1934, 34 varieties were reported grown. The commercial varieties of hard red spring wheat are listed in table 7 in the order of the estimated acreage in 1934, and the percentage of the total acreage for the class occupied by each variety in 1919, 1924, 1929, and 1934 also is shown. Three varieties, Ghirka, Champlain, and Stanley, reported in 1919 and 1929, were not grown in 1934. In 1934, four new varieties were reported in commercial production, namely, Komar, Thatcher, Illinois No. 1, and Sturgeon. The most widely grown varieties in 1934 were Marquis, Ceres, Reward, and Supreme.

TABLE 7.—Percentage of the total class area occupied by each variety of hard red spring wheat in 1919, 1924, 1929, and 1934, together with the estimated acreage for 1934

[The asterisk in parentheses (*) indicates the variety was reported as grown, but an estimate of acreage was not given or, if given, was less than 0.1 percent of the total acreage of the class]

Variety	Percentage of acreage				Acreage, 1934
	1919	1924	1929	1934	
Marquis.....	71.4	85.4	87.4	60.2	8,510,141
Ceres.....			2.6	31.5	4,453,487
Reward.....			.1	1.6	230,952
Supreme.....			2.2	1.3	188,401
Marquillo.....			.1	1.0	135,185
Preston.....	13.6	3.5	2.1	.9	127,059
Progress.....		(*)	.2	.7	92,546
Ruby.....		2.9	1.4	.5	77,240
Kota.....		4.2	1.9	.4	59,890
Dixon.....	(*)		(*)	.3	35,440
Whiteman.....			(*)	.2	34,100
Haynes Bluestem.....	9.5	1.2	.6	.2	22,322
Java.....	.1	.1	.1	.1	20,881
Red Fife.....	4.6	1.6	.2	.1	19,509
Converse.....	(*)		(*)	.1	18,441
Power.....	.1	.5	.1	.1	17,432
Hope.....			(*)	.1	16,250
Huston.....	.1	.2	.1	.1	12,643
Komar.....				.1	12,412
Garnet.....			.1	.1	11,038
Marvel.....			(*)	.1	9,212
Montana King.....			.3	.1	8,239
Red Bobs.....		.1	.1	.1	8,206
Kinney.....	.2	.1	.1	.1	7,729
Kitchener.....		(*)	(*)	(*)	3,721
Sea Island.....	.1	.1	.1	(*)	3,565
Thatcher.....				(*)	1,823
Reliance.....			(*)	(*)	1,722
Prelude.....	(*)	.1	(*)	(*)	1,360
Illinois No. 1.....			(*)	(*)	1,116
Renfrew.....			(*)	(*)	638
Ladoga.....	.1	(*)	.1	(*)	450
Humpback.....	.2	(*)	.1	(*)	139
Sturgeon.....				(*)	28
Ghirka.....	(*)		(*)		
Champlain.....	(*)		(*)		
Stanley.....	(*)		(*)		
Total reported.....	100.0	100.0	100.0	100.0	14,143,317
Varieties not reported.....					35,372
Total.....					14,178,689

MARQUIS

Marquis continued the leading variety, occupying 60.2 percent of the total reported acreage of this class. In 1929 it occupied 87.4 percent of the total acreage of the class and in 1924, 85.4 percent. The acreage of Marquis decreased over 3 million acres during the last 5-year period, due principally to the increase in Ceres. The distribution of Marquis wheat in 1934 is shown in figure 4.

Marquis was reported from 27 States in 1934, North Dakota, Montana, South Dakota, Minnesota, and Colorado having the largest acreage. It is grown in many States outside the spring wheat belt, indicating a wide adaptation. The acreage of Marquis decreased during the 5-year period in each of the five principal producing States but increased in Kansas, where it was used to replace winter wheat when the latter failed because of drought. In North Dakota the large loss in acreage was due to an increase of the Ceres acreage.

CERES

Ceres is a selection from a Marquis \times Kota cross made at the North Dakota Agricultural Experiment Station, Fargo, N. Dak. It was distributed to farmers in 1925 and reported in the varietal surveys of the United States Department of Agriculture for the first time in 1929. The estimated acreage was then 347,632 acres, or 2.6 percent



FIGURE 4.—Distribution of Marquis wheat in 1934. Each dot represents 1,000 acres. Estimated area, 8,510,141 acres.

of the total hard red spring acreage. In 1934, Ceres was grown in seven States, the estimated acreage being 4,453,487 acres, or 31.5 percent of the total reported hard red spring acreage, ranking second to Marquis. The 1934 distribution of Ceres is shown in figure 5. North Dakota, with nearly 3 million acres, was the leading State; but probably 2 million acres also were grown in Manitoba and Saskatchewan, Canada, where it has increased rapidly. The popularity of Ceres is due to its resistance to stem rust and drought and its high yield.

REWARD

Reward was developed from a Marquis-Prelude cross at the Central Experimental Farm at Ottawa, Canada.

It was distributed in 1927 for commercial growing in Canada by L. H. Newman, Dominion cerealist, and was first grown to a limited extent in the United States in 1928. The advantages of Reward are its early maturity and its large, plump kernels of exceptionally high quality. In 1929 it was reported grown on 6,520 acres, principally in South Dakota. In 1934 it was the third most important variety of hard red spring wheat, occupying 230,952 acres, or 1.6 percent of the total hard

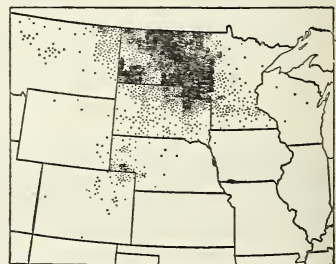


FIGURE 5.—Distribution of Ceres wheat in 1934. Estimated area, 4,453,487 acres.

red spring acreage. This acreage was in the four States, North Dakota, South Dakota, Montana, and Minnesota. The distribution of Reward wheat in 1934 is shown in figure 6.

SUPREME

Supreme, a selection of Red Bobs made at Rosthern, Saskatchewan, Canada, was the fourth most important variety of hard red spring wheat in 1934. It was first reported in 1929 when it occupied



FIGURE 6.—Distribution of Reward wheat in 1934. Estimated area, 230,952 acres.

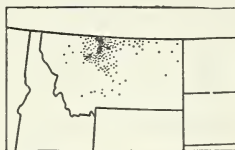


FIGURE 7.—Distribution of Supreme wheat in 1934. Estimated area, 188,401 acres.

299,840 acres, or 2.2 percent of the total hard red spring acreage. In 1934 its acreage was reduced to 188,401 acres, or 1.3 percent. This entire acreage of Supreme is in Montana, where it is recommended by the Montana Agricultural Experiment Station. Supreme is very susceptible to stem rust and is not adapted for growing in the Dakotas and Minnesota where rust frequently occurs. The distribution in 1934 is shown in figure 7.

MARQUILLO

Marquillo was developed at the Minnesota Agricultural Experiment Station in cooperative experiments with the Division of Cereal Crops and Diseases, Bureau of Plant Industry, United States Department of Agriculture. It is the result of a cross made in 1914 between Marquis and Iumillo durum. It was distributed in 1929 for commercial growing by the Minnesota station. In 1929 it was reported grown on 10,150 acres. In 1934 the acreage had increased to 135,185 acres, or 1.0 percent of the hard red spring wheat acreage. In that year the Minnesota station distributed the Thatcher variety, the result of a double cross, Marquis-Iumillo \times Kanred-Marquis. As Thatcher was more resistant to stem rust, of better quality, and higher yielding than Marquillo, the latter was withdrawn from the recommended list of wheat varieties for Minnesota and its further increase was not encouraged. The distribution of Marquillo wheat in 1934 is shown in figure 8.

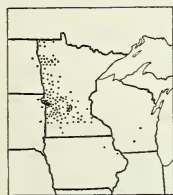


FIGURE 8.—Distribution of Marquillo wheat in 1934. Estimated area, 135,185 acres.

PRESTON

The distribution of Preston wheat in 1934 is shown in figure 9. Since 1919, when it was grown on 2,233,200 acres, its acreage has steadily decreased. In 1934 it was still grown in nine States, but it is not an important or recommended variety in any one. The rapid decrease of Preston was due to its susceptibility to stem rust and its poor milling and baking qualities.

PROGRESS

Progress was developed from a selection of Java made in 1916 at the Marshfield branch station operated by the department of agronomy of the University of Wisconsin. It was distributed for commercial growing in 1921 and first was reported as being grown on 397 acres in 1924. In 1929, 33,193 acres were estimated grown. The 1934 survey shows the acreage to have increased to 92,546 acres, ranking seventh among the hard red spring wheats. This distribution of Progress wheat in 1934 is shown in figure 10. This



FIGURE 9.—Distribution of Preston wheat in 1934. Estimated area, 127,059 acres.

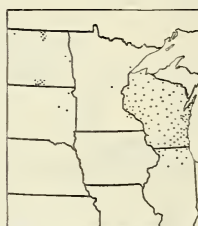


FIGURE 10.—Distribution of Progress wheat in 1934. Estimated area, 92,546 acres.

acreage is in five States but principally in Wisconsin, where it is recommended. Recently the Wisconsin station has distributed Sturgeon, the result of a Progress-Marquis cross which may replace the Progress variety in Wisconsin.

RUBY

Ruby was originated by Charles E. Saunders, former Dominion cerealist, at the Central Experimental Farm, Ottawa, Canada. It matures about 5 days earlier than Marquis. It was reported for the first time in 1924, when the estimated total acreage was 329,958 acres, and ranked fourth among the hard red spring wheat varieties. In 1929 the acreage of Ruby was reduced to 186,476 acres and in 1934 to 77,240 acres. This latter acreage is shown in figure 11. The decrease in the acreage of Ruby was due to its susceptibility to stem rust and its lower yields than newer resistant varieties which have partly replaced it.

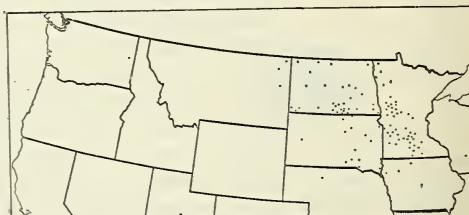


FIGURE 11.—Distribution of Ruby wheat in 1934. Estimated area, 77,240 acres.

OTHER VARIETIES OF HARD RED SPRING WHEAT

The discussion so far has been largely concerning wheat varieties having an estimated total acreage of 75,000 acres or more. Of the remaining varieties listed in table 7, the acreage of the following increased from 1929 to 1934: Dixon, Whiteman, Java, Converse, Hope, Huston, Komar, Garnet, Marvel, Thatcher, Reliance, Illinois

No. 1, and Sturgeon. The acreage of the following varieties decreased: Kota, Haynes Bluestem, Red Fife, Power, Montana King, Red Bobs, Kinney, Kitchener, Sea Island, Prelude, Renfrew, Ladoga, and Humpback. Four varieties were reported for the first time in 1934. These varieties and the States in which they were grown are as follows: Komar in South Dakota, North Dakota, Colorado, Iowa, and Montana; Thatcher in Minnesota; Illinois No. 1 in Illinois; and Sturgeon in Wisconsin and Illinois.

DURUM WHEATS

The durum wheats are grown principally in eastern North Dakota and South Dakota and occupy a part of the same territory in which the hard red spring wheats are grown. The durum acreage was

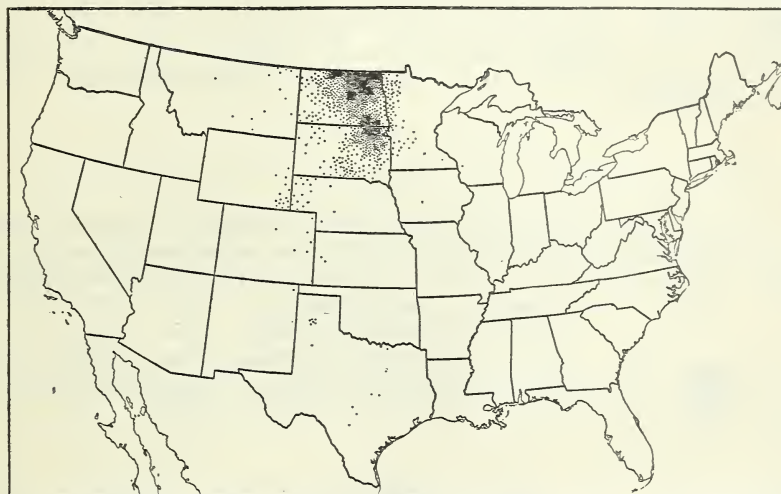


FIGURE 12.—Distribution of durum wheat in 1934. Each dot represents 2,000 acres. Estimated area, 2,806,003 acres.

reduced to 2,806,003 acres as compared with 5,841,627 acres in 1929. This reduction in the acreage of durum wheat is due to several reasons, but principally to the increase in the acreage of Ceres.

Eleven varieties were reported in 1934. The estimated acreage in 1934 and the percentage of the total durum area occupied by the known durum wheat varieties in 1919, 1924, 1929, and 1934 are given in table 8. The distribution of all durum wheat is shown in figure 12.

The identity of the varietal name of much of the durum wheat grown is not known to the growers, for the word "durum" is considered by many a varietal name. For this reason, nearly half of the total durum acreage was shown as "Durum (varieties not reported)." There was a considerable increase in the acreage of known varieties in 1934 as compared with that of the previous surveys.

TABLE 8.—Percentage of the total class area occupied by each variety of durum wheat in 1919, 1924, 1929, and 1934, together with the estimated acreage for 1934

[The asterisk in parentheses (*) indicates the variety was reported as grown, but an estimate of acreage was not given or if given was less than 0.1 percent of the total acreage of the class]

Variety	Percentage of acreage				Acreage, 1934
	1919	1924	1929	1934	
Durum (varieties not reported).....	96.8	74.4	60.2	41.7	1,167,863
Kubanka.....	1.2	11.6	12.5	24.6	687,379
Mindum.....		.3	5.5	15.9	446,399
Pentad.....	1.1	8.2	17.3	11.1	309,822
Acme.....		1.6	1.3	3.8	106,782
Peliss.....	.1	.1	.1	.9	26,010
Arnautka.....	.3	.6	.3	.7	18,571
Monad.....		2.0	1.6	.6	17,977
Nodak.....		(*)	.6	.6	17,635
Kahla.....	.5	1.1	.5	.1	1,668
Mondak.....				(*)	(*)
Barnatka.....			.1		
Total reported.....	100.0	99.9	100.0	100.0	2,800,106
Varieties not reported.....					5,897
Total.....					2,806,003

KUBANKA

Although Kubanka is the best known of the durum varieties, much of its acreage is unidentified and has been reported merely as durum. This distribution of the identified Kubanka in 1934 is shown in figure 13. Kubanka was reported from five States in 1934, North Dakota having the largest acreage. The estimated acreage of Kubanka decreased from 724,864 acres in 1929 to 687,379 acres in 1934, but ranks first among the known durum varieties.

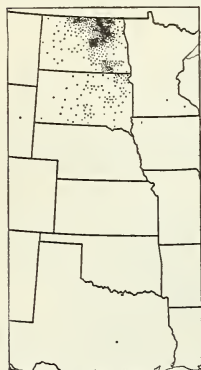


FIGURE 13.—Distribution of Kubanka wheat in 1934. Each dot represents 1,000 acres. Estimated area, 687,379 acres.

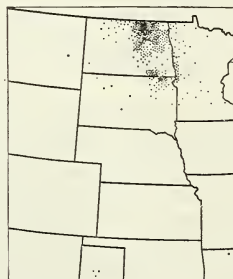


FIGURE 14.—Distribution of Mindum wheat in 1934. Estimated area, 446,399 acres.

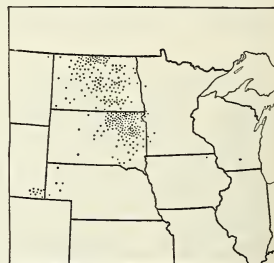


FIGURE 15.—Distribution of Pentad wheat in 1934. Estimated area, 309,822 acres.

MINDUM

The distribution of Mindum wheat is shown in figure 14. The acreage is largely in North Dakota, South Dakota, and Minnesota, although a small acreage is grown in Texas and Montana. In 1929 the estimated total was 322,151 acres, making up 5.5 percent of the total durum acreage. In 1934 it was 446,399 acres, or 15.9 percent. The increase in the acreage of Mindum is due to its high yield and good quality of semolina. Millers prefer it to other varieties for the manufacture of semolina.

PENTAD

Pentad (red durum) ranked first in acreage in 1929 with 1,004,228 acres, or 17.3 percent of the durum wheat acreage. In 1934 this was reduced to 309,822 acres, or 11.1 percent, and the variety ranked third. The distribution of Pentad wheat in 1934 is shown in figure 15. The decrease in acreage of Pentad is due to the increase in the acreage of Ceres and to the poor quality of Pentad itself. It is not used for the manufacture of semolina but is used largely for feed or is exported.

ACME

The acreage of Acme increased from 72,938 acres, or 1.3 percent, in 1929 to 106,782 acres, or 3.8 percent, in 1934. The 1934 acreage is shown in figure 16. This increase in acreage was largely in South Dakota, and was due largely to its resistance to stem rust.



FIGURE 16.—Distribution of Acme wheat in 1934. Estimated area, 106,782 acres.

OTHER DURUM VARIETIES

Of the durum varieties grown on less than 100,000 acres in 1934, the acreage of Peliss, Arnautka, and Mondak increased and that of Monad, Nodak, Kahla, and Barnatka decreased. The Golden Ball variety was known to be grown in North Dakota in 1934, but it was not reported in the survey.

HARD RED WINTER WHEATS

The hard red winter wheats are grown chiefly in the central and southern sections of the Great Plains region. Smaller acreages occur

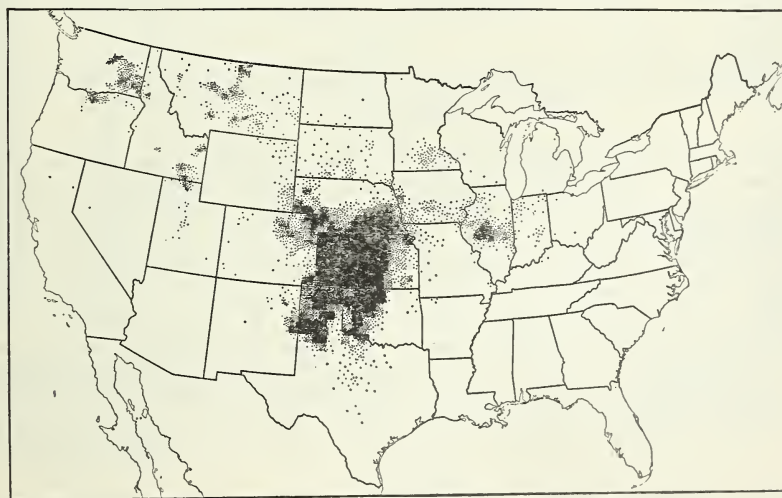


FIGURE 17.—Distribution of hard red winter wheat in 1934. Each dot represents 2,000 acres. Estimated area, 27,170,453 acres.

in Iowa, Illinois, Indiana, Oregon, Washington, Idaho, and Montana. The distribution in 1934 is shown in figure 17. The relative acreage

of hard red winter wheat increased from 43.5 percent of the total wheat acreage in 1929 to 44.6 percent in 1934. This class of wheat continues to be the most important in number of acres grown.

The number of commercial varieties of hard red winter wheat has increased gradually since 1919, the number reported in 1919, 1924, 1929, and 1934, respectively, being 8, 17, 29, and 34. The following varieties were first reported in 1934. Tenmarq, Cheyenne, Cooperatorka, Ukrainka, Rio, and Relief. The estimated acreage in 1934 and the percentage of the total hard red winter wheat acreage occupied by each of the commercial varieties in 1919, 1924, 1929, and 1934 are shown in table 9.

TABLE 9.—Percentage of the total class area occupied by each variety of hard red winter wheat in 1919, 1924, 1929, and 1934, together with the estimated acreage for 1934

[The asterisk in parentheses (*) indicates the variety was reported as grown, but for which an estimate of acreage was not given or if given was less than 0.1 percent of the total acreage of the class]

Variety	Percentage of acreage				Acreage, 1934
	1919	1924	1929	1934	
Turkey.....	99.4	70.5	60.0	56.7	15, 114, 395
Blackhull.....	(*)	7.5	22.5	24.8	6, 617, 379
Kanred.....	1.5	21.2	13.2	11.0	2, 928, 980
Nebraska No. 60.....		.1	1.3	2.4	649, 839
Tenmarq.....				.7	177, 746
Minturki.....		.2	.3	.6	165, 639
Ridit.....		(*)	.6	.6	159, 402
Superhard.....			.4	.6	154, 388
Iobred.....		(*)	.4	.4	112, 874
Michikof.....		.3	.5	.4	91, 923
Karmont.....		(*)	.3	.3	90, 448
Redhull.....			(*)	.3	83, 049
Early Blackhull.....			(*)	.3	78, 013
Cheyenne.....				.2	42, 575
Cooperatorka.....				.2	38, 636
Utah Kanred.....			.1	.1	26, 140
Newturk.....			.1	.1	21, 790
Eagle Chief.....			(*)	.1	20, 214
Montana No. 36.....	(*)	.1	.1	.1	18, 674
Mosida.....			.1	.1	16, 118
Ioturk.....			(*)	(*)	9, 246
Iowin.....			(*)	(*)	8, 629
Ilred.....		.1	.1	(*)	7, 530
Alton.....	(*)	(*)	.1	(*)	6, 464
Sherman.....			(*)	(*)	5, 159
Oro.....			(*)	(*)	3, 077
Ashkof.....			(*)	(*)	2, 058
Wisconsin Pedigree No. 2.....	(*)	(*)	(*)	(*)	1, 995
Nebraska No. 6.....	(*)	(*)	(*)	(*)	1, 280
Ukrainka.....			(*)	(*)	991
Rio.....			(*)	(*)	871
Relief.....			(*)	(*)	77
Beloglina.....		(*)	(*)	(*)	27
Bacska.....	(*)	(*)	(*)	(*)	16
Iowa No. 404.....	.1	(*)	(*)	(*)	
Regal.....			(*)	(*)	
Total reported.....	100.0	100.0	100.0	100.0	26, 655, 642
Varieties not reported.....					514, 811
Total.....					27, 170, 453

Four varieties—Turkey, Blackhull, Kanred, and Nebraska No. 60—occupied 94.9 percent of the total reported class acreage in 1934. The percentage of the acreage occupied by Turkey is gradually decreasing due to the increasing popularity of the newer varieties.

TURKEY

The distribution of Turkey wheat in 1934, including varieties grown under the name Kharkof and many other synonyms, is shown in figure 18. Turkey continues to be the most widely grown variety of wheat, being reported from 28 States in 1934. Kansas, Texas, Oklahoma, and Nebraska have the largest acreages of Turkey. In 1919, Turkey comprised 99.4 percent of the total acreage of hard red winter wheat. Since that time the percentage has gradually decreased until in 1934 it occupied only 56.7 percent of the reported class acreage. The percentage of the total wheat acreage has also decreased from 29.63 percent in 1919 to 24.80 in 1934. Increases in the percentage of acreage occupied by Turkey were reported in Wyoming, Arkansas, New Mexico, Washington, Montana, Nevada, and Idaho.

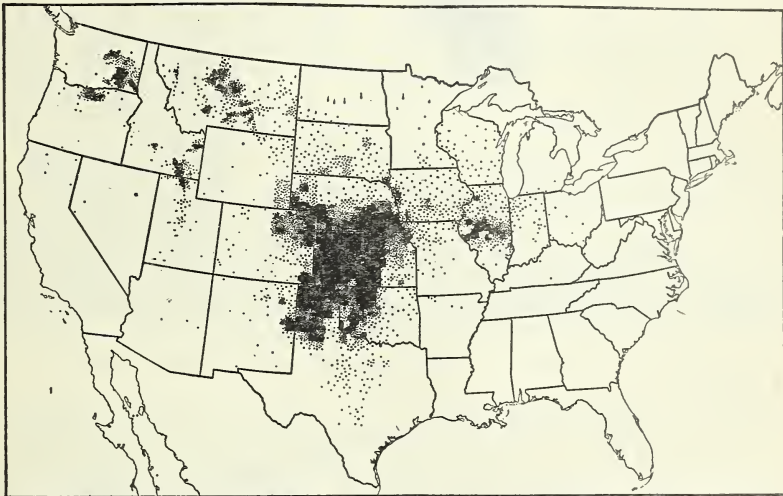


FIGURE 18.—Distribution of Turkey wheat in 1934. Each dot represents 1,000 acres. Estimated area, 15,114,395 acres.

Decreases were reported in many States, the largest relative decreases being in Nebraska, Illinois, Iowa, Oregon, Minnesota, and Kansas.

As stated before, the acreage of Turkey includes the reported acreages of Kharkof. In the 1934 survey the acreages of Kharkof were left separate on the work sheets, as was done in 1929. Kharkof was reported from 17 States in 1934, the total estimated acreage being 285,456 acres, or 0.47 percent of the total wheat acreage. The acreage is only 1.9 percent of the total acreage of Turkey, which is a slight reduction from the 1929 figure of 2.4 percent. Considering the fact that Kharkof is decreasing and that the varieties cannot be distinguished, it would seem that combining their acreage is a justifiable procedure.

BLACKHULL

The distribution of Blackhull wheat in 1934 is shown in figure 19. This variety was reported from 10 States, those having the largest acreage being Kansas, Oklahoma, and Texas. Blackhull was reported as being grown on 6,617,379 acres, ranking second among the hard red winter wheats and comprising 24.8 percent of the reported class acreage and 10.86 of the total wheat acreage. No Blackhull acreage

was reported in 1919, but in 1924 there were 1,519,992 acres, and since that time there has been a rapid increase. In 1929, Blackhull was reported in 11 States, comprising 22.5 percent of the class acreage and 9.61 of the total wheat acreage. The important changes in distribution have been

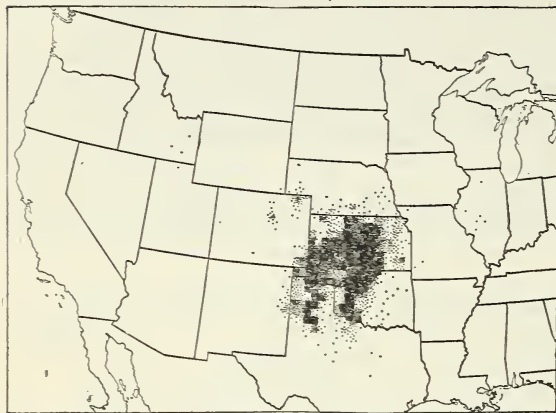


FIGURE 19.—Distribution of Blackhull wheat in 1934. Estimated area, 6,617,379 acres.

increases in acreages in Texas, New Mexico, Colorado, Nebraska, and Kansas. In Texas the increase amounted to more than 500,000 acres and in percentage of the State total from 13.2 in 1929 to 22.9 percent in 1934. Slight decreases were shown in Illinois, Missouri, and Oklahoma. The Blackhull acreage is fairly well limited to south-central and southwestern Kansas,

western Oklahoma, and the northern part of the Texas Panhandle. The variety is slowly increasing in certain sections of Colorado and Nebraska. Lack of winter hardiness tends to limit Blackhull to the southern part of the hard winter wheat area.

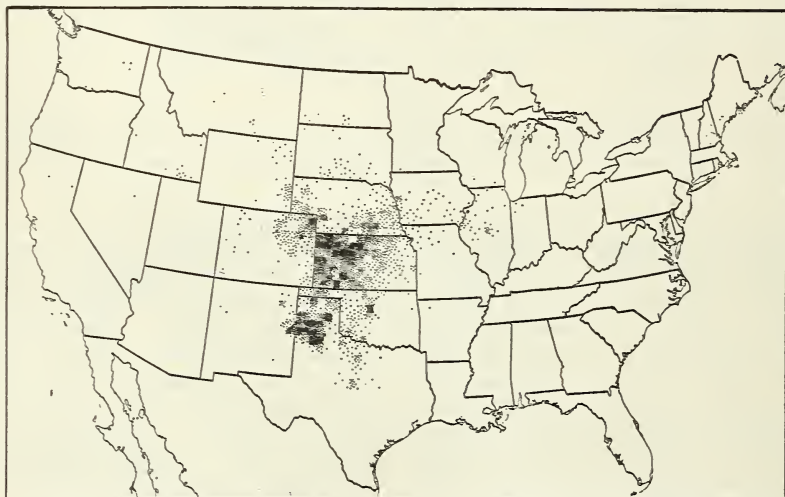


FIGURE 20.—Distribution of Kanred wheat in 1934. Estimated area, 2,928,980 acres.

KANRED

In 1934 Kanred was reported as being grown on 2,928,980 acres in 23 States, comprising 4.81 percent of the total wheat acreage and 11.0 percent of the reported hard red winter wheat acreage. Kansas, Texas, Colorado, and Oklahoma reported the largest acreages of this variety. The distribution of Kanred wheat in 1934 is shown in

figure 20. Kanred was first reported in 1919, when it comprised only 0.5 percent of the total class acreage. In 1924 it was grown on more than 4 million acres, which comprised 21.2 percent of the class acreage, and the variety ranked second in the class. Since that time the acreage of Kanred has decreased and in 1929 it comprised only 13.2 percent of the hard red winter wheat acreage. The 1934 acreage of Kanred shows that the decline is continuing, due to replacement by Blackhull, Tenmarq, and Turkey. The States showing the greatest decreases were Nebraska, Oklahoma, Kansas, Colorado, and Illinois. In Texas there was an increase in estimated acreage but a decrease in percentage.

NEBRASKA NO. 60

The distribution of Nebraska No. 60 in 1934 is shown in figure 21. This variety was reported from five States, the largest acreage being in Nebraska. Nebraska No. 60 was estimated as occupying 649,839 acres in 1934, which was 1.07 percent of the total wheat acreage and 2.4 of the class acreage. The variety was first reported in 1924, when it comprised 0.1 percent of the hard red winter wheat acreage. In 1929 it had increased to 1.3 percent of the class acreage. From 1929 to 1934 the acreage of Nebraska No. 60 in Nebraska nearly doubled, and the percentage of the acreage of the State increased from 8.9 to 18.9 percent. In Kansas there was a very small increase, while in Colorado the acreage remained about the same and in Oklahoma it was reported for the first time in 1934.



FIGURE 21.—Distribution of Nebraska No. 60 wheat in 1934. Estimated area, 649,839 acres.

TENMARQ

Tenmarq was developed at the Kansas Agricultural Experiment Station and distributed for commercial growing in 1932. In 1934, it was estimated that it occupied 177,746 acres, which comprised 0.7 percent of the class acreage. Most of the acreage was reported from Kansas although the variety was also reported as being grown in Texas and in Oklahoma. As shown in figure 22 the acreage of Tenmarq was located principally in south-central Kansas.

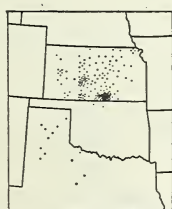


FIGURE 22.—Distribution of Tenmarq wheat in 1934. Estimated area, 177,746 acres.



FIGURE 23.—Distribution of Minturki wheat in 1934. Estimated area, 165,639 acres.

MINTURKI

The distribution of Minturki wheat in 1934 is shown in figure 23. This variety was reported from eight States, the largest acreage being in Minnesota; smaller acreages were reported from surrounding States. The estimated acreage of Minturki in 1934 was 165,639 acres, which comprised 0.6 percent of the class total. In 1924,

Minturki was grown on 36,970 acres and in 1929 on 89,028 acres; thus it will be seen that its acreage is slowly increasing. The greatest increase from 1929 to 1934 was in Minnesota, where the acreage nearly doubled and the percentage of the State acreage increased from 6.2 to 9.3 percent.

RIDIT

The distribution of Ridit in 1934 is shown in figure 24. The variety was reported as being grown in Washington, Idaho, Oregon, and Utah. The estimated acreage of Ridit in 1934 was 159,402 acres, which comprised 0.6 percent of the class acreage. In 1929 Ridit occupied 166,411 acres, which was 0.6 percent of the class total for that year. Therefore there has been no great change.



FIGURE 24.—Distribution of Ridit wheat in 1934. Estimated area, 159,402 acres.

Superhard, a selection from Blackhull, was estimated as occupying 154,388 acres in 1934. It was reported from Kansas and Oklahoma. In 1929, Superhard was reported as occupying 99,635 acres. In figure 25 the distribution of Superhard is shown, from which it will be seen that the variety is grown in the same general territory as is Blackhull. Since it is impossible to definitely distinguish Superhard from Blackhull there may be some question as to the desirability of reporting the varieties separately. Considerable Superhard seed has been sold, and it is felt that in many cases farmers may have reported Blackhull only, and this included the acreage of Blackhull and Superhard together.

SUPERHARD



FIGURE 25.—Distribution of Superhard wheat in 1934. Estimated area, 154,388 acres.

IOBRED

In figure 26 is shown the distribution of Iobred wheat in 1934. Iobred was reported from Iowa, Kansas, Illinois, Nebraska, Missouri, and Oklahoma. The estimated area in 1934 was 112,874 acres, which was 0.4 percent of the class total. In 1929, Iobred was grown on 107,892 acres. The acreage of Iobred increased in Iowa, Missouri, Nebraska, and Oklahoma and decreased slightly in Illinois and Kansas.



FIGURE 26.—Distribution of Iobred wheat in 1934. Estimated area, 112,874 acres.

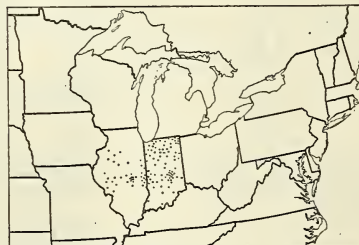


FIGURE 27.—Distribution of Michikof wheat in 1934. Estimated area, 91,923 acres.

MICHIKOF

Michikof was estimated as occupying 91,923 acres, or 0.4 percent of the class total in 1934. In 1929 it was estimated that the variety occupied 139,107 acres, comprising 0.5 percent of the hard red winter wheat acreage. As shown in figure 27, Michikof was grown only in Illinois and Indiana in 1934. Although never widely grown, the importance of the variety is decreasing.

KARMONT

In 1934 Karmont was estimated as occupying 90,448 acres, comprising 0.3 percent of the class acreage. First reported in 1924, the variety increased in importance until in 1929 it was reported as growing on 85,935 acres, comprising 0.3 percent of the hard red winter wheat acreage. As shown in figure 28, practically the entire acreage of Karmont is in Montana with a small acreage in Utah.



FIGURE 28.—Distribution of Karmont wheat in 1934. Estimated area, 90,448 acres.

OTHER VARIETIES OF HARD RED WINTER WHEAT

Several additional varieties of hard red winter wheat are shown in table 9, but their acreages are so small that distribution maps are not given. Redhull increased from 7,255 acres in 1929 to 83,049 in 1934. The variety was confined to southern Kansas and northern Oklahoma. Early Blackhull reported on 248 acres in 1929 increased to 78,013 in 1934. All of this acreage is in south-central Kansas, where the variety has become rather popular when a very early variety is desired. Cheyenne, a variety developed at the Nebraska Agricultural Experiment Station and distributed in 1930, was estimated as occupying 42,575 acres in 1934. The greatest acreage was reported in Nebraska and Kansas. Cooperatorka, a variety imported from the Union of Soviet Socialist Republics, was reported from Kansas. It was estimated as occupying 38,636 acres in 1934. Utah Kanred was estimated as occupying 26,140 acres in Utah in 1934. Originally it was wrongly considered that this variety was identical with Kanred, and in 1929 was so treated. It is now estimated that 21,084 acres of the 36,490 acres of Kanred in Utah in 1929 were really Utah Kanred, which is different from Kanred. The acreage of Newturk increased from 12,380 acres in 1929 to 21,790 in 1934. All the acreage of this variety is in Montana. Eagle Chief was reported in Oklahoma and Texas in 1934 and estimated as occupying 20,214 acres. This variety has increased in importance, since 1929. The acreage of Montana No. 36 decreased from 31,028 acres in 1929 to 18,674 in 1934. The acreage of Mosida increased from 12,392 acres in 1929 to 16,118 in 1934. Idaho, Oregon, Washington, and Montana reported Mosida. The acreages of Ioturk and Iowin increased slightly from 1929 to 1934. Practically the entire acreage of these varieties is in Iowa.

The acreage of Ilred decreased from 24,190 in 1929 to 7,530 in 1934, all confined to Illinois. In 1934 Alton was reported only from Oklahoma. Sherman increased slightly from 1929 to 1934. This variety is grown in Utah and Idaho. The acreage of Oro increased slightly from 1929 to 1934, the variety being grown in Oregon and Idaho.

SOFT RED WINTER WHEATS

The soft red winter wheats are grown principally in the eastern half of the United States and to some extent in the Pacific Northwest. This class of wheat ranks third among the various market classes of wheat. The distribution in 1934 is shown in figure 29. The class is grown chiefly in the subhumid to humid area east and south of the hard red winter wheat belt. Both soft and hard red winter wheats are grown in certain sections between the areas which produce only hard red winter or soft red winter wheats, and in these sections there is considerable fluctuation from year to year in the relative acreages

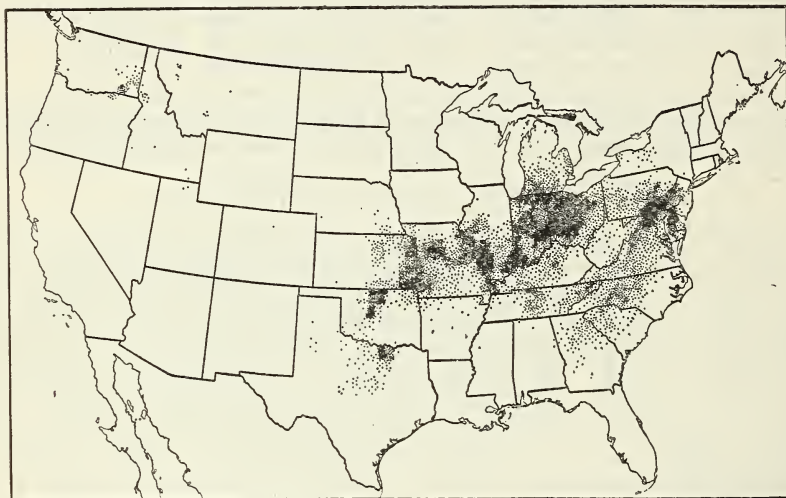


FIGURE 29.—Distribution of soft red winter wheat in 1934. Each dot represents 2,000 acres. Estimated area, 12,718,733 acres.

of these classes, depending largely on comparative yields and prices obtained.

Estimates of the 1934 acreages and the percentage of the total reported soft red winter wheat acreage occupied by each variety in 1919, 1924, 1929, and 1934 are shown in table 10. In 1934, 74 varieties were grown, and of this number 12 were reported for the first time. These varieties in order of acreage are: Kawvale, Baldrock, Sibley No. 81, Valprize, Cherokee, Kruse, Gleason, Illinois No. 2, Gasta, Squareheads Master, Purdue No. 1, and Dale.

Five varieties reported as grown in 1929 were not reported in 1934, indicating that among the soft red winter wheats new varieties are being introduced faster than the old ones pass out of cultivation. The number of varieties in this class that are grown commercially is much larger than the number for any other class.

Three varieties of soft red winter wheat were reported as being grown on more than 1,000,000 acres. These are Fultz, Fulcaster, and Trumbull. Five varieties had acreages between 500,000 and 1,000,000, and 15 varieties were grown on from 100,000 to 500,000 acres.

TABLE 10.—Percentage of the total class area occupied by each variety of soft red winter wheat in 1919, 1924, 1929, and 1934, together with the estimated acreage for 1934

[The asterisk in parentheses (*) indicates the variety was reported as grown, but for which an estimate of acreage was not given or if given was less than 0.1 percent of the total acreage of the class]

Variety	Percentage of acreage				Acreage, 1934
	1919	1924	1929	1934	
Fultz.....	23.5	17.1	14.2	15.4	1,870,380
Fulcaster.....	12.6	17.3	13.7	11.5	1,395,122
Trumbull.....	(*)	5.7	8.9	9.4	1,135,641
Red May.....	5.7	3.8	7.8	8.1	977,421
Leap.....	2.6	4.9	6.6	5.9	708,903
Poole.....	12.0	10.0	5.9	5.6	672,564
Fulhio.....		.8	2.5	4.4	533,838
Mediterranean.....	13.6	5.7	5.3	4.3	519,261
Currell.....	3.2	2.5	4.2	4.0	480,478
Nittany.....		2.5	3.9	3.4	409,223
Harvest Queen.....	4.9	3.9	3.5	3.1	379,897
Red Wave.....	5.5	4.2	2.5	2.5	307,259
Purplestraw.....	1.3	1.1	1.5	2.5	306,028
Purkof.....			2.0	2.5	300,357
Forward.....		(*)	1.5	2.1	258,329
Red Rock.....	1.1	3.3	2.6	1.8	219,706
Rudy.....	2.0	2.4	1.9	1.8	211,991
Flint.....	.5	1.0	.6	1.5	178,020
Nigger.....	1.4	1.9	1.2	1.3	151,907
Triplet.....		1.0	1.6	1.0	123,150
Jones Fife.....	2.3	2.0	1.6	1.0	117,736
Redhart.....			(*)	.9	112,392
V. P. I. 131.....			.8	.9	106,292
Goens.....	.6	1.0	.2	.6	66,743
Diehl-Mediterranean.....	.6	.6	.4	.4	49,876
Denton.....			.2	.4	48,596
Mammoth Red.....	(*)	.1	.5	.4	43,713
Kawvale.....				.4	41,487
Gipsy.....	.6	.8	.3	.3	40,704
Fultz-Mediterranean.....	1.5	.8	.4	.3	37,804
Gladden.....	(*)	1.0	.4	.3	34,896
Russian Red.....	.8	.5	.6	.3	30,710
Baldrock.....				.2	25,434
Red Russian.....	.8	.5	.6	.2	24,735
Portage.....	(*)	.5	.1	.2	23,387
Sibley No. 81.....				.2	22,737
Berkeley Rock.....				.2	21,780
Red Clawson.....	.4	.2	.1	.1	15,557
Rice.....	.2	.5	.1	.1	13,017
V. P. I. 112.....			.3	.1	12,550
Valley.....	(*)	(*)	(*)	.1	7,703
China.....	.3	.6	.1	.1	7,288
Prosperity.....	.2	(*)	(*)	.1	5,948
Russian.....		.2	.2	.1	5,159
Odesa.....	.3	.2	.1	(*)	4,941
Valprize.....				(*)	4,816
Wheedling.....	.1	(*)	(*)	(*)	4,058
Ashland.....		(*)	(*)	.1	3,758
Gold Drop.....	(*)	(*)	(*)	(*)	3,425
Hybrid 123.....	.1	.5	.3	(*)	3,037
Silversheaf.....	.2		.1	(*)	2,950
Lofthouse.....	(*)	(*)	.1	(*)	2,930
Walker.....	.1	(*)	(*)	(*)	2,886
Cherokee.....				(*)	2,763
Mealy.....	.3	.1	.1	(*)	2,566
Grandprize.....	.2	.1	(*)	(*)	2,504
Minhardi.....			(*)	(*)	2,105
Kruse.....				(*)	2,068
Gleason.....				(*)	2,053
Mayview.....			(*)	(*)	1,816
Nabob.....			(*)	(*)	1,771
Climax.....	.1	(*)	.1	(*)	1,310
Rupert.....	.1	.1	.1	(*)	1,099
Illinois No. 2.....				(*)	968
Gasta.....				(*)	952
Squareheads Master.....				(*)	850
Zimmerman.....	.1	(*)	(*)	(*)	651
Illini Chief.....	.1	(*)	(*)	(*)	566
Shepherd.....			(*)	(*)	538
Sol.....	(*)	(*)	(*)	(*)	490
Coppei.....	(*)	.2	(*)	(*)	367
Wyandotte.....	(*)		(*)	(*)	298
Purdue No. 1.....	(*)		(*)	(*)	275

TABLE 10.—Percentage of the total class area occupied by each variety of soft red winter wheat in 1919, 1924, 1929, and 1934, together with the estimated acreage for 1924—Continued

Variety	Percentage of acreage				Acreage, 1934
	1919	1924	1929	1934	
Dale.....				(*)	140
Penquite.....	0.1	0.1	(*)		
Ruddy.....			(*)		
Oakley.....	(*)	(*)	(*)		
Imperial Amber.....			(*)		
Golden Cross.....	(*)	(*)	(*)		
Total reported.....	100.0	99.7	100.0	100.0	12,114,670
Varieties not reported.....					604,063
Total.....					12,718,733

FULTZ

In 1934 Fultz was estimated as occupying 1,870,380 acres, comprising 15.4 percent of the soft red winter wheat acreage reported and 3.07 of the total wheat acreage. Fultz is the sixth most important

variety in point of acreage. In 1934 Fultz was reported as being grown in 22 States. The States with the largest acreage are Illinois, Missouri, Indiana, Kentucky, and Ohio. The distribution of Fultz wheat in 1934 is shown in figure 30.



FIGURE 30.—Distribution of Fultz wheat in 1934. Each dot represents 1,000 acres. Estimated area, 1,870,380 acres.

to general wheat acreage increases. In Kansas there was a decrease in acreage.

The estimated acreage of Fultz in 1929 was 1,446,830 acres, comprising 14.2 percent of the total class acreage. It will be seen that the acreage of this variety has increased. The States showing increases from 1929 to 1934 were Illinois, Indiana, Missouri, Ohio, and West Virginia. In Kentucky and Tennessee the acreage increased, but the percentage of the total remained about the same owing to general wheat acreage increases. In Kansas there was a decrease in acreage.

FULCASTER

In 1934 it was estimated that Fulcaster was grown on 1,395,122 acres, comprising 2.29 percent of the total wheat acreage and 11.5 percent of the reported class acreage. In 1929 Fulcaster was estimated as occupying 1,400,057 acres, or 2.3 percent of the total wheat acreage and 13.7 of the class acreage. The variety is widely grown, having been reported from 22 States in 1934. The largest acreages were reported in Virginia, Tennessee, Missouri, Maryland, and Kansas. Figure 31 shows the distribution in 1934. In Illinois, Missouri, North Carolina, and Virginia the acreage decreased while in Kansas, Kentucky, Oklahoma, and Tennessee there were increases in acreage.

In 1919 Fultz had an acreage much greater than that of Fulcaster, while in 1924 the acreages were nearly equal, that of Fulcaster being slightly larger. In 1929 Fultz had the advantage, as it did in 1934. The distribution of Fulcaster differs from that of Fultz in that Fulcaster is grown on more than 100,000 acres in seven States, no State having more than about 234,000 acres. Fultz has acreages of 167,000 to 538,000 in each of four States.

TRUMBULL

The distribution of Trumbull wheat in 1934 is shown in figure 32. It was estimated that Trumbull was grown on

1,135,641 acres in 1934, comprising 1.86 percent of the total wheat acreage and 9.4 of the reported class acreage. In 1929 this variety was grown on 902,699 acres, or 8.9 percent of the soft red winter wheat acreage. It was reported in 1919 but in that year had a very small acreage; since that time it has gradually increased in importance. Most of the Trumbull acreage is in Ohio, where more than a million acres were reported in 1934. In that State the variety occupied 50.7 percent of the wheat acreage. There are smaller acreages in Indiana, Illinois, West Virginia, Michigan, Kentucky, and Pennsylvania.

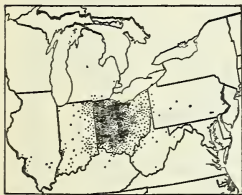


FIGURE 32.—Distribution of Trumbull wheat in 1934. Estimated area, 1,135,641 acres.

RED MAY

In 1934 Red May was estimated as occupying 977,421 acres, which was 1.60 percent of the total wheat acreage and 8.1 percent of the reported class total. The acreage of Red May fluctuated rather sharply in the earlier surveys. In 1919 and 1924 it comprised 5.7 and 3.8 percent, respectively, of the soft red winter wheat acreage. In 1929, it was estimated that Red May occupied 799,161 acres, or 7.8 percent of the total soft red winter wheat acreage. The variety was reported from 15 States, the largest acreages being in Missouri, Indiana, Illinois, and Kansas. The most important changes

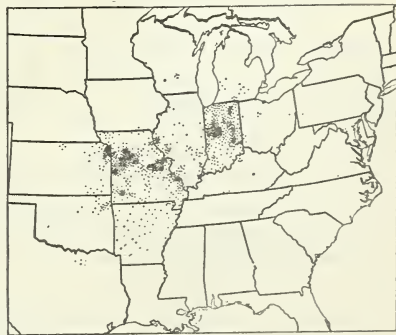


FIGURE 33.—Distribution of Red May wheat in 1934. Estimated area, 977,421 acres.

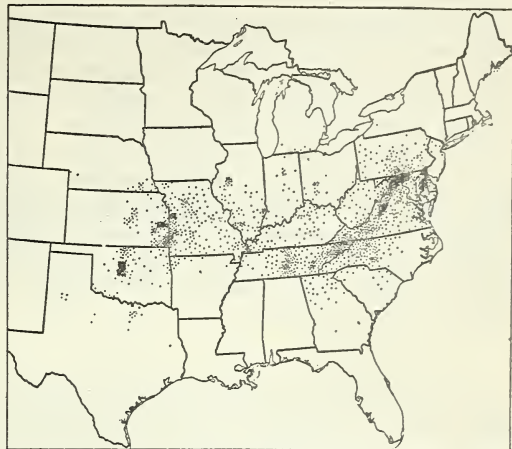


FIGURE 31.—Distribution of Fulcaster wheat in 1934. Estimated area, 1,395,122 acres.

were increases in Arkansas, Indiana, Kansas, Kentucky, and Missouri and decreases in Illinois, Michigan, Ohio, and Oklahoma. The distribution of the variety is shown in figure 33.

Part of the fluctuation in the acreage of Red May has been due to different grouping of synonyms. Red May is an awnless, glabrous, brown-glumed variety grown in the Central States. In the Southern States the name Red May is applied to an awnless, glabrous, white-glumed wheat synonymous with Flint. In the 1924 survey much of the Red May in the Southern States was reported as white-glumed and in compilation was shown as Rice. In 1929, only the reports of Red May indicating a white-glumed wheat were compiled as Rice, and all others remained as Red May, thus causing a large increase in the reported acreage. Continued study has shown that the Red May in the Southeastern States is synonymous with Flint and in the 1934 survey was so treated.

LEAP

The distribution of Leap wheat in 1934 is shown in figure 34. In 1929 it was estimated that Leap occupied 673,613 acres, comprising 6.6 percent of the class acreage, while in 1934 it was estimated to have been grown on 708,903 acres, or 5.9 percent of the soft red winter wheat total. In 1934 Leap was reported in 14 States, those having the

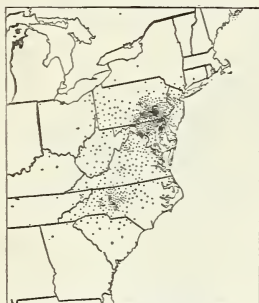


FIGURE 34.—Distribution of Leap wheat in 1934. Estimated area, 708,903 acres.

largest acreages being Pennsylvania, North Carolina, Maryland, and Virginia. In Maryland, New Jersey, and North Carolina the acreage increased while the acreages in Virginia decreased. It will be noted that while the acreage of Leap increased the percentage of all wheat decreased, indicating that the variety did not keep pace with the increased acreage of wheat in the Eastern States.



FIGURE 35.—Distribution of Poole wheat in 1934. Estimated area, 672,564 acres.

POOLE

The acreage of Poole wheat has gradually decreased since 1919. In 1919 it occupied 12.0 percent of the class acreage, in 1924, 10.0 percent, in 1929, 5.9 percent, and in 1934, 5.6 percent. The total

acreage in 1934 was estimated to be 672,564, or 1.10 percent of the total wheat acreage. The variety was reported in 14 States in 1934, the largest acreage being in Indiana, Ohio, Missouri, and Kentucky. The most important changes in distribution were increases in acreages in Ohio, Kentucky, and Indiana and decreases in Illinois and Oklahoma. The distribution of Poole in 1934 is shown in figure 35.

FULHIO

Fulhio was first reported in 1924, when it was estimated as occupying 0.8 percent of the soft red winter wheat acreage. In 1929 it was grown on 254,086 acres, comprising 2.5 percent of the class acreage. In 1934 it was estimated that the variety occupied 533,838 acres, comprising 4.4 percent of the class acreage. Fulhio was reported from seven States, the largest acreages being in Ohio and Illinois, and these States also showed the greatest acreage increases since 1929. The distribution of Fulhio is shown in figure 36.



FIGURE 36.—Distribution of Fulhio wheat in 1934. Estimated area, 533,838 acres.

MEDITERRANEAN

Mediterranean is one of the oldest named wheat varieties in the United States, having been introduced from the Mediterranean region of Europe more than a hundred years ago. In the 1919 survey it was



FIGURE 37.—Distribution of Mediterranean wheat in 1934. Estimated area, 519,261 acres.

estimated to be the second most important variety of soft red winter wheat. Since that time its importance has gradually decreased and in 1934 seven varieties of soft red winter were estimated to have larger acreages. In 1934 it was estimated that Mediterranean occupied 519,261 acres, comprising 4.3 percent of the class total. In 1929 it occupied 542,793 acres, or 5.3 percent of the class total. It was reported from 16 States in 1934, the largest acreage being in Texas, where more than 200,000 acres were grown, mostly in the north-central part of the State. Oklahoma, Illinois, Missouri, and Kansas also reported a considerable acreage of the variety. The distribution of Mediterranean is shown in figure 37. The acreage decreased in Texas owing largely to the introduction of Denton, a Mediterranean selection. Other States reporting decreases were Indiana, Ohio, and Tennessee. Increases were reported in Illinois, Kansas, Missouri, and Oklahoma.

CURRELL

The distribution of Currell wheat in 1934 is shown in figure 38. It was estimated that in 1934 Currell was grown on 480,478 acres, comprising 4.0 percent of the class total.

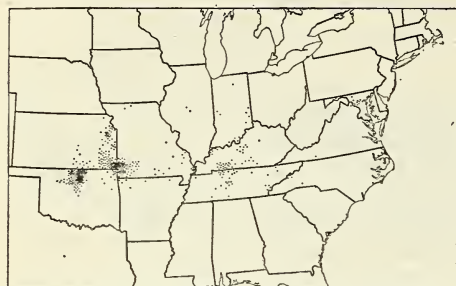


FIGURE 38.—Distribution of Currell wheat in 1934. Estimated area, 480,478 acres.

In 1929 Currell was reported on 430,596 acres, which was 4.2 percent of the soft red winter wheat acreage. Currell was reported from 12 States in 1934, the largest acreages being in Oklahoma, Kansas, and Missouri. Although the variety is rather widely scattered, there are two distinct Currell areas. One is south-central Kansas and north-central Oklahoma, and the other is in the southeastern corner of Kansas and the southwestern corner of Missouri. The acreage of Currell increased in Oklahoma, Kansas, and Kentucky and decreased in Illinois, Indiana, Maryland, and Missouri.

NITTANY

Nittany is a selection of Fulcaster made at the Pennsylvania Agricultural Experiment Station. It was first reported in 1924, when it occupied 2.5 percent of the class acreage. In 1929 it was grown on 398,312 acres, comprising 3.9 percent of the soft red winter wheat acreage. In 1934 it was estimated to be growing on 409,223 acres, or 3.4 percent of the class total. Here again, although the acreage increased, the percentage of the total decreased slightly. In 1934 Nittany was reported in 10 States, but about 80 percent of the acreage was in Pennsylvania, where it occupied 34.3 percent of the State



FIGURE 39.—Distribution of Nittany wheat in 1934. Estimated area, 409,223 acres.

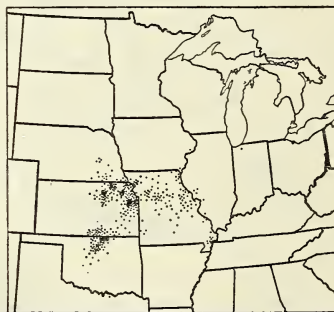


FIGURE 40.—Distribution of Harvest Queen wheat in 1934. Estimated area, 379,897 acres.

total. Smaller acreages were reported in Delaware and Maryland. In Delaware, Nittany occupied 41.1 percent of the total wheat acreage. The 1934 distribution of Nittany is shown in figure 39.

HARVEST QUEEN

In 1934 it was estimated that Harvest Queen was grown on 379,897 acres, comprising 3.1 percent of the class acreage. This compares with the 359,857 acres in 1929, comprising 3.5 percent of the soft red

winter acreage. In 1934 Harvest Queen was reported in 10 States, although more than 50 percent of the acreage was in Kansas. Fairly large acreages also were reported in Missouri, Oklahoma, and Nebraska. The distribution map in figure 40 shows that there are sev-

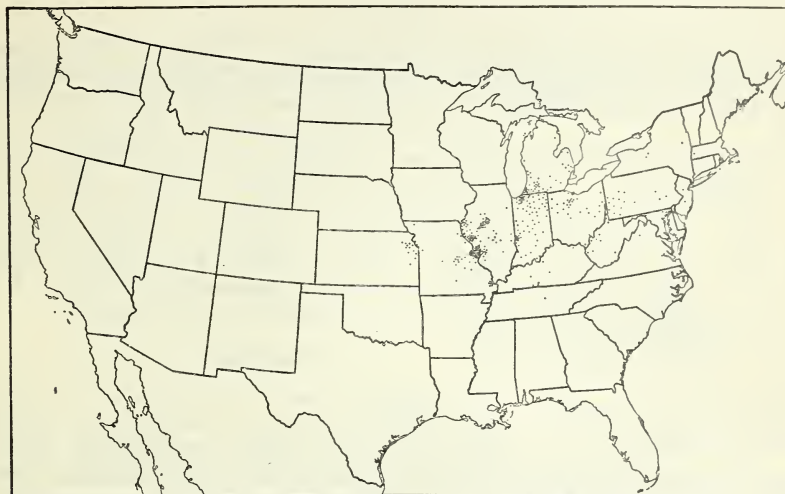


FIGURE 41.—Distribution of Red Wave wheat in 1934. Estimated area, 307,259 acres.

eral rather distinct Harvest Queen areas. Acreage increases were reported in Missouri, Nebraska, and Oklahoma, while Illinois and Kansas reported decreases.

RED WAVE

In 1934 Red Wave was estimated as occupying 307,259 acres, which was 2.5 percent of the class acreage. In 1919 this variety was grown on more than a million acres, but until 1929 the acreage decreased.

From 1929 to 1934 there was a slight acreage increase, although there was little or no change in percentage. In 1934 Red Wave was reported in 17 States, the largest acreages being in Illinois, Indiana, Missouri, and Michigan. No State has as much as 100,000 acres of Red Wave. The 1934 distribution is shown in figure 41.

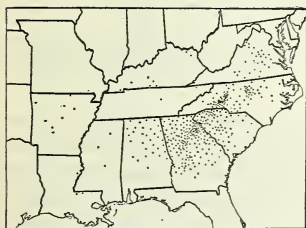


FIGURE 42.—Distribution of Purplestraw wheat in 1934. Estimated area, 306,028 acres.

PURPLESTRAW

Purplestraw is a variety of soft red winter wheat grown almost entirely in the southeastern section of the United States, as shown in figure 42. In 1934 it was estimated as occupying 306,028 acres, comprising 2.5 percent of the class total. In 1929 this variety was reported on 150,014 acres, which comprised 1.5 percent of the class total. Much of the increase is due to a general increase in wheat acreage in the States growing the variety. The variety was reported from 10 States, the largest acreages being in Georgia, North Carolina, South Carolina, and Virginia. Nearly all States growing Purplestraw

showed increases in acreage. In Georgia and South Carolina there were increases in acreage but decreases in percentage of the State total. In other words, Purplestraw did not increase in these States in proportion to the increase in the wheat acreage.

PURKOF

In figure 43 is shown the 1934 distribution of Purkof. This wheat, developed at the Purdue University Agricultural Experiment Station, was first reported in 1929, when it had an estimated total of 199,816 acres, or 2.0 percent of the class total. In 1934 it was estimated to have a total of 300,357 acres, or 2.5 percent of the class total. Nearly all of the acreage of Purkof is in Indiana and Illinois; there are small acreages in Missouri, Pennsylvania, Kansas, and Ohio. There was a large increase in acreage in Illinois and a smaller one in Indiana.



FIGURE 43.—Distribution of Purkof wheat in 1934. Estimated area, 300,357 acres.

In 1934 Forward was estimated to have a total of 258,329 acres, which was 2.1 percent of the class total. In 1929 the variety was reported as being grown on 155,172 acres, or 1.5 percent of the class total. Forward was reported as being grown in 12 States in 1934, Pennsylvania, New York, Tennessee, and Maryland having the largest acreages. Important increases were shown in Maryland, New York, Pennsylvania, and Virginia. In Tennessee and North Carolina the variety was reported for the first time in 1934, but the acreages in both States were rather large. The distribution in 1934 is shown in figure 44.

FORWARD

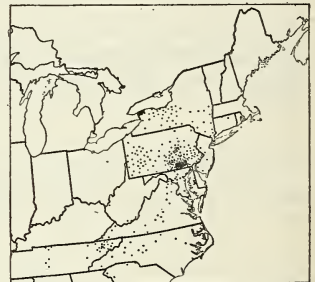


FIGURE 44.—Distribution of Forward wheat in 1934. Estimated area, 258,329 acres.

RED ROCK

Red Rock wheat was grown on more than 300,000 acres in 1924. Since that time the total has decreased, until in 1934 it was es-



FIGURE 45.—Distribution of Red Rock wheat in 1934. Estimated area, 219,706 acres.

estimated as occupying 219,706 acres, comprising 1.8 percent of the class total. The variety was reported from 12 States in 1929 and from only 6 States in 1934. About 200,000 acres of the total was reported from Michigan, with small acreages in Pennsylvania, Kansas, Indiana, Ohio, and New Jersey. In Michigan the acreage of Red Rock decreased slightly, but it still occupies 23.4 percent of the total acreage of the State. The distribution is shown in figure 45.

RUDY

The distribution of Rudy wheat in 1934 is shown in figure 46. It was estimated that in 1934 this variety was grown on 211,991 acres, which was 1.8 percent of the class total. In 1929 this variety was grown on 191,078 acres, comprising 1.9 percent of the class total. Seven States reported Rudy in 1934, the largest acreage being in Indiana, and smaller acreages in surrounding States. Eighty-seven percent of the 1934 Rudy acreage was in Indiana.

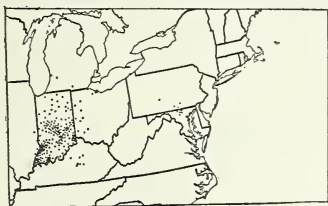


FIGURE 46.—Distribution of Rudy wheat in 1934. Estimated area, 211,991 acres.



FIGURE 47.—Distribution of Flint wheat in 1934. Estimated area, 178,020 acres.

FLINT

The distribution of Flint wheat in 1934 is shown in figure 47. It was estimated that this variety occupied 178,020 acres in 1934, as compared with 65,233 in 1929. Part of this increase is due to increased wheat acreage in the Flint territory and partly to the different grouping of synonyms in certain States, as explained under the discussion of Red May. Flint was reported from eight States in 1934, the largest acreages being in Virginia, North Carolina, South Carolina, and Tennessee. The variety is limited entirely to the Southeastern States. The greatest increases in acreage were in North Carolina, South Carolina, and Tennessee. Part of these were due to the fact that all Red May was recorded as Flint instead of either Red May or Rice, as was done previously.

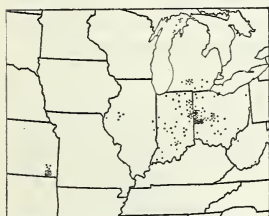


FIGURE 48.—Distribution of Nigger wheat in 1934. Estimated area, 151,907 acres.

NIGGER

In 1934 Nigger was grown on 151,907 acres, comprising 1.3 percent of the class total, while in 1929 the total was 126,484 acres, or 1.2 per cent of the total class acreage. In 1934 Nigger was reported from six States. The largest acreage was reported from Ohio, Indiana, Kansas, and Michigan. The importance of this variety does not seem to have changed much since 1929. The distribution of Nigger in 1934 is shown in figure 48.

TRIPLET

In 1934 Triplet was estimated to be grown on 123,150 acres, comprising 1.0 percent of the class acreage. In 1929 this variety was estimated as occupying 168,018 acres, or 1.6 percent of the class total. Triplet was reported in Washington, Oregon, Idaho,



FIGURE 49.—Distribution of Triplet wheat in 1934. Estimated area, 123,150 acres.

and Montana. The acreage of Triplet increased in Washington and decreased in Idaho and Oregon. The distribution of Triplet wheat in 1934 is shown in figure 49, from which it will be seen that the variety is limited to the Northwestern States.

JONES FIFE

The distribution of Jones Fife in 1934 is shown in figure 50. The variety was reported from 16 States scattered over most of the United States, no State having as much as 25,000 acres. It was estimated

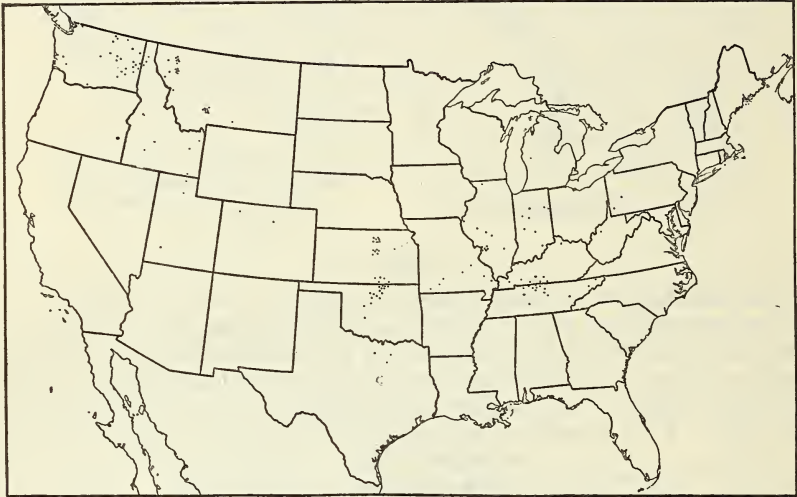


FIGURE 50.—Distribution of Jones Fife wheat in 1934. Estimated area, 117,736 acres.

that in 1934 Jones Fife was grown on 117,736 acres, comprising 1.0 percent of the class acreage. In 1929 the variety had a total area of 167,416 acres, 1.6 percent of the total soft red winter wheat acreage. Montana, Washington, Kansas, Oklahoma, and Tennessee have the largest acreages of Jones Fife. It would seem that although this variety is widely distributed it is slowly becoming less important.

REDHART

Redhart is a selection from Flint made by the Coker's Pedigreed Seed Co., of Hartsville, S. C. In 1929 it was reported as being grown on 2,310 acres in North Carolina. In 1934 it was grown on 112,392 acres, comprising 0.9 percent of the class acreage. Most of the acreage is in the Carolinas, each having about the same amount; there are smaller acreages in Georgia, Virginia, and Arkansas. The distribution of Redhart in 1934 is shown in figure 51.

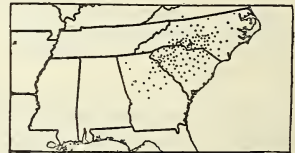


FIGURE 51.—Distribution of Redhart wheat in 1934. Estimated area, 112,392 acres.

V. P. I. 131

V. P. I. 131, a Fulcaster selection made at the Virginia Agricultural Experiment Station, was first reported in 1929. In that year it

occupied 80,135 acres. In 1934 it had a total of 106,292 acres, or 0.9 percent of the class total. Nearly 95 percent of the acreage of V. P. I. 131 is in Virginia. Smaller acreages were reported in North Carolina, West Virginia, and Tennessee. The 1934 distribution of V. P. I. 131 is shown in figure 52.

OTHER VARIETIES OF SOFT RED WINTER WHEAT

In addition to the 23 varieties discussed and for which maps are presented, 51 other varieties were reported for 1934, as shown in table 10. Maps were made only for those varieties of soft red winter wheat that had an estimated acreage of 100,000 acres or more. A few of these additional varieties might be mentioned. Denton, a selection from Mediterranean, was reported on 48,596 acres in Texas. Kawvale, a new selection from the Kansas Agricultural Experiment Station, occupied more than 40,000 acres in Kansas. Baldrock, a selection made at the Michigan Agricultural Experiment Station, was grown on about 25,000 acres in Michigan. Sibley No. 81, selected at the Oklahoma Agricultural Experiment Station, occupied more than 20,000 acres in Oklahoma. Various other new strains, reported for the first time, occupied small acreages in the various States. Many of the older varieties continue to be grown in small areas and increase or decrease only slightly from year to year.

WHITE WHEATS

In 1934 the estimated acreage of white wheat was 4,079,257 acres, comprising 6.7 percent of the acreage of all wheat and ranking fourth among the market classes. Since these surveys were begun the white wheats and the durums have fluctuated in importance. In 1919 and 1934 the white wheats exceeded the durums, while in 1924 and 1929 the



FIGURE 52.—Distribution of V. P. I. 131 wheat in 1934. Estimated area, 106,292 acres.

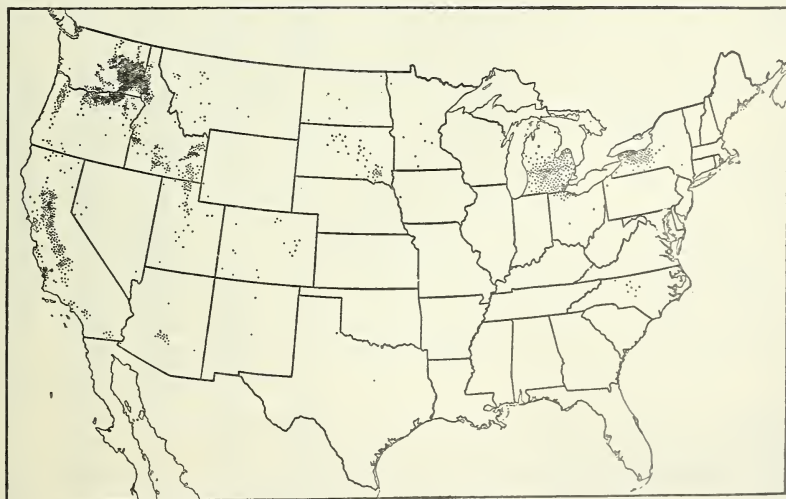


FIGURE 53.—Distribution of white wheats in 1934. Each dot represents 2,000 acres. Estimated area, 4,079,257 acres.

durums exceeded the white wheats. The distribution of the acreage of white wheat (both common and club) in 1934 is shown in figure 53. White wheats are grown chiefly in the Western States, especially Oregon, Washington, Idaho, and California. Rather extensive acreages also are grown in two Eastern States, Michigan and New York.

The number of white wheat varieties reported as being grown commercially in 1919, 1924, 1929, and 1934 was 47, 46, 52, and 62, respectively. In 1934, five varieties reported in 1929 no longer appeared. These are Palisade, Foisy, Longberry No. 1, Arizona No. 24, and Axminster. Those reported for the first time were Arco, Currawa, Hard Federation 31, Mackey, Hood, Poso, White Mediterranean, Imbler, Ramona, Major, and Golden. Several varieties not reported in 1929 but in previous surveys were again reported in 1934.

The varieties of white wheat are listed in table 11 in the order of their estimated acreage in 1934. The percentage of the total class acreage occupied by each variety in 1919, 1924, 1929, and 1934 is also shown. The leading varieties in 1934 were Baart, Federation, Goldcoin, and Albit. No white wheat variety occupies as much as a million acres, and only 10 varieties were estimated as occupying more than 100,000 acres each.

TABLE 11.—Percentage of the total class area occupied by each variety of white wheat in 1919, 1924, 1929, and 1934, together with the estimated acreage for 1934

[The asterisk in parentheses (*) indicates the variety was reported as grown, but for which an estimate of acreage was not given or if given was less than 0.1 percent of the total acreage of the class]

Variety	Percentage of acreage				Acreage, 1934
	1919	1924	1929	1934	
Baart.....	10.0	16.9	17.1	19.8	794,774
Federation.....		1.1	16.8	17.4	697,421
Goldcoin.....	19.1	23.4	19.9	10.9	437,734
Albit.....			1.7	9.8	392,483
Dawson.....	2.5	2.2	.9	8.9	356,108
Dicklow.....	3.3	4.0	5.7	4.4	176,022
Pacific Bluestem.....	27.4	13.0	8.1	4.2	167,582
Hybrid 128.....	5.8	14.5	8.0	3.6	142,605
Quality.....		.4	2.9	3.0	120,733
White Federation.....		(*)	.9	2.6	105,267
Bunyip.....	(*)	1.0	2.6	1.8	71,058
Honor.....		.2	.4	1.7	68,897
Sonora.....	5.3	3.1	2.0	1.3	50,681
Jenkin.....	1.3	3.9	2.1	1.2	47,930
Wilhelmina.....			.5	.9	37,545
Big Club.....	.4	.7	.1	.9	36,830
Defiance.....	3.9	1.3	.9	.9	35,046
Onas.....			.4	.7	28,398
Little Club.....	2.1	.8	.4	.7	27,688
Pilcrow.....	(*)		.3	.6	24,534
Club (varieties not reported).....	7.7	5.7	2.8	.5	21,084
White Winter.....	1.1	1.0	.6	.4	16,377
Escondido.....			.1	.4	15,439
Greeson.....	.1	.4	.2	.4	14,296
Oregon Zimmerman.....			.1	.4	14,278
Galgalos.....	.7	.5	.3	.3	10,894
Hard Federation.....		.4	1.4	.2	9,110
Arco.....				.2	8,700
Rink.....	.3	.7	.7	.2	7,685
Prohibition.....	.5	.5	.1	.2	6,916
Currawa.....				.2	6,171
Hybrid 143.....	1.0	.5	.2	.2	6,159
Surprise.....	1.2	.6	.5	.1	5,615
Hybrid 63.....	.7	.4		.1	5,449
Hard Federation 31.....				.1	4,276
Redchaff.....	.8	.1	.2	.1	4,268
Mackey.....				.1	3,907
Martin.....	.8	.2	(*)	.1	3,826
Powerclub.....		.2	.1	.1	3,525

TABLE 11.—Percentage of the total class area occupied by each variety of white wheat in 1919, 1924, 1929, and 1934, together with the estimated acreage for 1934—Continued

Variety	Percentage of acreage				Acreage, 1934
	1919	1924	1929	1934	
Eaton.....	.2	.2	.2	.1	2,877
Touse.....	.5	.3	.1	.1	2,558
Lynn.....	.2			.1	2,312
Propo.....	.4	.3	.4	.1	2,182
Hood.....				(*)	1,970
Gypsum.....	.2	(*)		(*)	1,871
New Zealand.....		.2	(*)	(*)	1,843
Poso.....				(*)	1,732
White Mediterranean.....				(*)	1,554
Silvercoin.....	(*)	(*)	.1	(*)	1,258
Kofod.....	.2	.2	.1	(*)	1,071
Windsor.....	(*)		(*)	(*)	995
Imbler.....				(*)	795
Genesee Giant.....	(*)	(*)	(*)	(*)	791
Utac.....			(*)	(*)	610
Bluechaff.....	(*)	.1	(*)	(*)	466
Ramona.....				(*)	457
White Odessa.....			(*)	(*)	382
Major.....				(*)	317
Golden.....				(*)	181
Sevier.....	(*)	.1	.1	(*)	179
Allen.....	.3	.2	(*)	(*)	144
Democrat.....	.1	(*)	(*)	(*)	66
Pusa No. 4.....			(*)	(*)	4
Palisade.....	.8	.1	(*)	(*)	
Folsy.....	.8	.4	(*)	(*)	
Longberry No. 1.....	.1		(*)	(*)	
Arizona No. 24.....			(*)	(*)	
Axminster.....			(*)	(*)	
Total reported.....	99.8	99.8	100.0	100.0	4,013,926
Varieties not reported.....					65,331
Total.....					4,079,257

BAART

In 1934 it was estimated that Baart was grown on 794,774 acres, comprising 19.8 percent of the class acreage reported and 1.30 percent of the total wheat acreage. In 1929 this variety occupied 766,547 acres, or 17.1 percent of the class total. Baart was reported from 11 States in 1934, the largest acreages being in Washington, California, and Idaho. Baart is the leading variety of wheat in Arizona, California, and Washington. From 1929 to 1934 the acreage decreased in Idaho and increased in Arizona, California, and Washington. In previous surveys Baart has not been the most important white wheat, but in 1934 its acreage exceeded that of any other variety. The distribution of Baart wheat in 1934 is shown in figure 54.

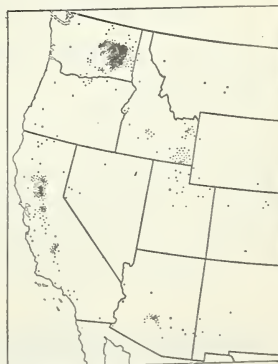


FIGURE 54.—Distribution of Baart wheat in 1934. Each dot represents 1,000 acres. Estimated area, 794,774 acres.

FEDERATION

Federation was first reported as being grown on a commercial scale in 1924, when it occupied 1.1 percent of the white-wheat acreage. It increased very rapidly and in 1929 was grown on 752,867 acres, comprising 16.8 percent of the class total. In 1934

Federation occupied 697,421 acres, or 17.4 percent of the white-wheat acreage. The variety was reported in nine States in 1934; the largest acreages were in Oregon, Washington, Idaho, and California. The 1934 distribution of Federation is shown in figure 55. Increases in acreage were reported in California, Montana, and Utah. In Idaho and Oregon the acreages decreased but the percentage increased.

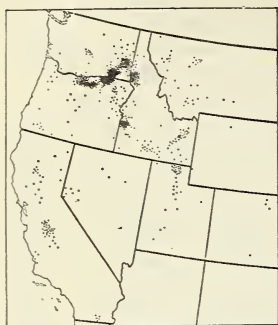


FIGURE 55.—Distribution of Federation wheat in 1934. Estimated area, 697,421 acres.

GOLDCOIN

Goldcoin was estimated to be grown on 437,734 acres, comprising 10.9 percent of the white-wheat acreage in 1934. In 1929 the variety was estimated as occupying 892,371 acres, or 19.9 percent of the class acreage. In both 1924 and 1929 Goldcoin was the most widely grown white wheat, but in 1934 had dropped to third place. In 1934 it was reported from 14 States, the largest acreages being in New York, Oregon, Washington, Michigan, and Ohio. The distribution of Goldcoin in 1934 is shown in figure 56. There was a small increase

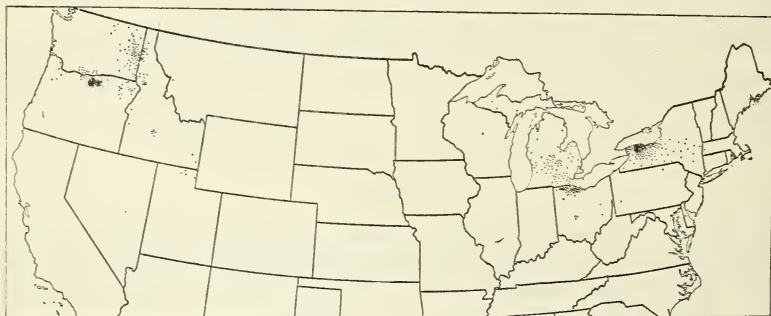


FIGURE 56.—Distribution of Goldcoin wheat in 1934. Estimated area, 437,734 acres.

in Ohio, but in Idaho, Michigan, Oregon, and Washington there were large decreases.

Part of the reduced acreage of Goldcoin is explained by a regrouping of synonyms. In previous surveys American Banner when reported has been edited as Goldcoin. It is now known that the wheat known as American Banner should be considered Dawson and not Goldcoin. In the 1934 survey this change caused a big reduction in the acreage of Goldcoin and an increase in Dawson.

ALBIT

Albit is a production of the Washington Agricultural Experiment Station and was distributed in 1926. In 1929 it was estimated as occupying 78,190 acres, or 1.7 percent of the class acreage. By 1934

the variety was estimated as occupying 392,483 acres, or 9.8 percent of the total class acreage. The acreage of Albit was exceeded by only three white wheats in 1934, and it is the leading variety of club wheat. The entire acreage was reported from Washington, Idaho, and Oregon, the largest acreage being in Washington. The distribution of Albit wheat in 1934 is shown in figure 57.



FIGURE 57.—Distribution of Albit wheat in 1934. Estimated area, 392,483 acres.

DAWSON

Dawson is a variety of white wheat grown entirely in the Eastern States. In 1934 it was reported from Michigan, New York, Connecticut, and Ohio. Most of the acreage was reported in Michigan, where it was estimated as occupying 40.4 percent of the total wheat acreage of the State. In 1934 it was estimated that Dawson was grown on 356,108 acres, or 8.9 percent of the class acreage. In 1929 Dawson was estimated to be growing on 42,578 acres, comprising 0.9 percent of the class total. Much of this increase occurred in Michigan and was due for the most part to placing American Banner with Dawson instead of with Goldcoin, as has been done previously. The earlier surveys are wrong in that they show much of the wheat area in Michigan to be taken up with Goldcoin when it should have been credited to Dawson. The distribution of Dawson in 1934 is shown in figure 58.



FIGURE 58.—Distribution of Dawson wheat in 1934. Estimated area, 356,108 acres.

DICKLOW

Dicklow was estimated as occupying 176,022 acres, comprising 4.4 percent of the class total in 1934. In 1929 this variety was grown on 253,421 acres, or 5.7 percent of the class total. Dicklow was reported from nine States in 1934, the largest acreage being in Idaho and Utah. A large acreage decrease occurred in Idaho with practically no percentage change. The distribution of Dicklow in 1934 is shown in figure 59.

PACIFIC BLUESTEM

Pacific Bluestem was the leading variety of white wheat in 1919 and was grown on 27.4 percent of the class acreage. Since that time the variety has decreased, until in 1934 it was grown on 167,582 acres, comprising 4.2 percent of the total white-wheat acreage. The distribution in 1934 is shown in figure 60. The variety was reported in eight States, the largest acreages being in Idaho; there were smaller acreages



FIGURE 59.—Distribution of Dicklow wheat in 1934. Estimated area, 176,022 acres.

Washington, California, and in other Western States.

Important decreases in acreages were reported from Washington, California, Idaho, and Oregon. Because of its late maturity Pacific Bluestem is being rapidly replaced by earlier varieties, such as Baart, Federation, and Bunyip.



FIGURE 60.—Distribution of Pacific Bluestem wheat in 1934. Estimated area, 167,582 acres.

HYBRID 128

In 1934 Hybrid 128 was estimated as occupying 142,605 acres, comprising 3.6 percent of the total acreage of white wheat. In 1929 the variety was grown on 356,910 acres, or 8.0 percent of the class acreage. The distribution of Hybrid 128 in 1934 is shown in figure 61. The variety was reported in Oregon, Washington, and Idaho, with most of the acreage in the first two States. Decreases in acreage occurred in all three States



FIGURE 61.—Distribution of Hybrid 128 wheat in 1934. Estimated area, 142,605 acres.

owing chiefly to the increasing popularity of Albit, a club variety which now outranks Hybrid 128 in number of acres grown.

QUALITY

Quality was first reported in 1924 and in 1929 was grown on 131,842 acres, comprising 2.9 percent of the class acreage. In 1934 the variety was grown on 120,733 acres, or 3.0 percent of the class acreage. The distribution of Quality wheat in 1934 is shown in figure 62. Quality was reported from 10 States, the largest acreage being in South Dakota; North Dakota and Minnesota had smaller acreages. The important changes in distribution were an increase in acreage in South Dakota and a decrease in North Dakota.



FIGURE 62.—Distribution of Quality wheat in 1934. Estimated area, 120,733 acres.



FIGURE 63.—Distribution of White Federation wheat in 1934. Estimated area, 105,267 acres.

WHITE FEDERATION

In figure 63 is shown the 1934 distribution of White Federation. It is estimated as occupying 105,267 acres, or 2.6 percent of the class total in 1934. In 1929 the variety was reported on only 38,401 acres, comprising 0.9 percent of the class acreage. It was grown almost entirely in California; there are 197 acres in Nevada.

BUNYIP

It was estimated that in 1934 Bunyip was grown on 71,058 acres, comprising 1.8 percent of the class acreage. In 1929 Bunyip was reported on 116,435 acres, comprising 2.6 percent of the white-wheat acreage. Figure 64 shows the 1934 distribution of Bunyip, which was grown almost entirely in California and on small acreages in Washington and Idaho.

OTHER VARIETIES

In addition to the 11 varieties of white wheat discussed above there are a large number of varieties of which the estimated acreages are relatively small. Many of these unimportant varieties are gradually decreasing in acreage. Some new varieties that have been released rather recently have not become widely grown as yet. A few of these are Honor in New York and Pennsylvania, Escondido in California, Arco in Oregon, and Currawa in Washington. Possibly some of these will become widely grown in future years.



FIGURE 64.—Distribution of Bunyip wheat in 1934. Estimated area, 71,058 acres.

CLUB WHEATS

All club wheats with white kernels are listed with the white wheats in table 11, and those with red kernels are listed with the soft red winter wheats in table 10. This is in agreement with the market classes and grades. It seemed desirable to consider all the club wheats as a group, and in table 12 all of these varieties are listed, regardless of kernel color. In 1934, 17 named varieties of club wheat were reported. A considerable acreage of unnamed varieties was listed in the table as club (varieties not reported) because many of the correspondents regard "club" as a varietal name.



FIGURE 65.—Distribution of club wheats in 1934. Each dot represents 2,000 acres. Estimated area, 695,429 acres.

The total estimated acreage of club wheats in 1934 amounted to 695,429 acres, or 1.14 percent of the total wheat acreage. This class of wheat is raised chiefly in Washington, Idaho, Oregon, and California and on small acreages in Montana and Utah. The distribution of club wheats in 1934 is shown in figure 65. In 1929 Hybrid 128 was the leading variety of club wheat. In 1934 Albit had replaced Hybrid 128 as the leading variety, being grown on 56.4 percent of the total club acreage. The acreage of club (varieties not reported) is greatly reduced in the 1934 survey. There are two reasons for this, the most important being the spread of Albit, a wheat well known by name; the other is that most of the club wheat in California is now known to be Big Club. In previous surveys this has been left in club (varieties not reported). This will also account

for the increase in the acreage of Big Club. Albit was estimated as occupying 392,483 acres and Hybrid 128, 142,605 acres. All of the other varieties were grown on less than 50,000 acres.

TABLE 12.—*Estimated acreage and percentage of total area occupied by each variety of club wheat in 1934*

Variety	Acreage	Percentage	Variety	Acreage	Percentage
Albit.....	392,483	56.4	Hood.....	1,970	0.3
Hybrid 128.....	142,605	20.5	Mayview.....	1,816	.3
Jenkin.....	47,930	6.9	Poso.....	1,732	.2
Big Club.....	36,830	5.3	Imbler.....	795	.1
Little Club.....	27,688	4.0	Utac.....	610	.1
Club (varieties not reported).....	21,084	3.0	Bluechaff.....	466	.1
Hybrid 143.....	6,159	.9	Coppel.....	367	.1
Hybrid 63.....	5,449	.8	Dale.....	140	(*)
Redchaff.....	4,268	.6			
Hybrid 123.....	3,037	.4	Total.....	695,429	100.0

The varieties of red club reported were Hybrid 123, Mayview, Coppei, and Dale, all of which comprised less than 1 percent of the total club acreage. It is not likely that much of the acreage of club (varieties not reported) has red kernels.

STANDARDIZATION OF VARIETIES

The varieties of wheat most widely grown usually are those best adapted. However, new varieties are continually being developed by Federal, State, and private breeders. The United States Department of Agriculture and the State agricultural experiment stations test new varieties in comparison with the old, and thus are in a position to recommend the best variety or varieties for each locality and State. The agricultural extension services, acting upon the results from Federal and State experiment stations, advise growers as to the best variety for any particular locality. From the data presented it would seem that more effort should be given to eliminating the older and poorer varieties, since the new improved varieties are not replacing old varieties either as rapidly or as completely as is possible.

A reduction in the number of varieties grown and the standardization of communities on the best-adapted variety are the mutual aims of all Federal and State station and extension workers.

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